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for information





ARFEN has been producing solutions in high quality standards for the needs of the building and industry sector since its establishment in 1999 with motto "build solutions". It achieves important successes not only in the domestic market but also in international markets together with its business partners. Underlying this success is the company policy that makes "continuity in quality and customer-oriented approach" principle and does not compromise on this line.

Arfen that continue its activities in Istanbul Hadımkoy industrial zone , Çorlu industrial zone and Gebze industrial zone in a total closed area of 18.000 m², became one of the important manufacturers in the plastic, aluminum and rubber industry with its management approach that adopts specialization in production. While applying the modern and technological production methodology; always takes care to protect its sensitivity to work and worker safety, human health and the environment.

Arfen expansion joint profiles, bridge expansion profiles and supports, decoration profiles, vinyl wall and corner protection systems, aluminum mat systems, Hydroflex waterproofing products which are manufactured with high quality standards with continuous new investments and developments, meet the needs of the construction sector.

Numerous projects have been carried out not only in domestic, but also export to 65 countries. The products that are manufactured under the Arfen brand, have been used for many years without any failure.







Arfen Alüminyum A.Ş. / TEKİRDAĞ

Arfen İnşaat ve Yapı Teknolojileri San. Tic. A.Ş. / İZMİT



DEVELOPMENTS AND CONTINUOUS ACTIVITIES IN ARFEN R&D DEPARTMENT

BIM is the reflection of technological developments in the construction sector, of the optimum interdisciplinary information sharing system based on cooperation between architects, engineers, employers and contractors in a 3D environment. BIM creates a simulation of the plan, design, construction and operation of a facility; it also provides information management from the initial design phase of the building to the usage phase.

The use of BIM in the world has become widespread in the last 10 years. It has become mandatory for public projects in some countries such as the United Kingdom. Many European countries and the USA have developed standards on BIM. The BIM system will become a new standard for the construction industry in the future. On the other hand, the use of BIM in Turkey can still be considered at the initial level, based on other world countries. As ARFEN, we adapted to this technology by creating BIM objects of Arfen's products and we started to offer our customers by taking our place next to our only competitors in Turkey and few in the world.

ARFEN BİM objects are digital copies of our products rather than a 3D object. These objects not only give all the information about the materials, but also provide easy workability and practical quantity calculation for the project. BIM simplifies the planning and purchasing processes. It minimizes possible product-related application and planning errors, saves time and money, and increases productivity. You can request and provide the objects of our products working with the BIM system from our customer representatives. ARFEN continues to develop solutions with BIM objects.











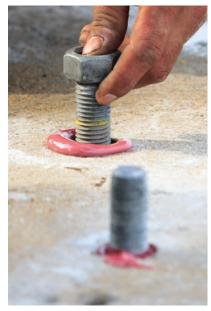














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Polyurethane Based Waterproofing
MS-Polymer Based Waterproofing
Acrylic Resin Based Waterproofing
Polyuria Based Waterproofing



HYDROFLEX PU 1K is a one-component, UV resistant, solvent, easily applied, polyurethane based and elastic waterproofing material. After it is applied, it cures with the moisture on the surface and in the air, forming a waterproofing membrane that has no joints and can bridge cracks. The forming waterproofing membrane maintains its performance even at low temperatures.

PRODUCT SPECIFICATIONS

- UV Resistance
- It can be applied at interior or exterior.
- It is applied easily (brush, roll, Airless gun)
- Excellent adhesion
- Crack bridging (at least 2 mm)
- High elasticity
- Matt-looking
- Easy to repair
- Suitable for light pedestrian traffic
- Vapor permeability
- Resistant to puncture by plant roots
- Resistant to weather conditions (temperature, water and freezing)

APPLICATION AREAS

- Waterproofing for all kinds of roofs, balconies and terraces existing light pedestrian traffic (on exposed concrete, cement screed and plaster)
- Waterproofing for all kinds of under ceramic toilets, bathrooms, kitchens and other wet areas:
- Waterproofing for foundation and retaining wall
- Waterproofing for green roof, under landscaping and in flower pot
- Waterproofing for top of old ceramic application
- Waterproofing and protection for top of thermal insulation applications (PU foam, EPS, XPS etc.)
- Waterproofing and protection for top of tunnel and bridge
- Glass, metal and wooden surfaces

HYDROFLEX PU 1K

Polyurethane Based One-Component UV Resistant Waterproofing Membrane

PACKAGE

20 kg Metal Bucket

CONSUMPTION

1,50 kg/m 2 (2 coat application) 2,10 kg/m 2 (3 coat application)





HYDROFLEX PU 1K/PRO is a one-component, UV resistant, solvent, aliphatic, polyurethane based finishing waterproofing and coating material. An elastic and high-strength membrane without bubbles is formed through special curing system.

PRODUCT SPECIFICATIONS

- UV Resistant
- Aliphatic (No color change, no yellowing under sunlight)
- It is applied easily (brush, roll, Airless gun)
- Excellent adhesion
- Suitable for light pedestrian traffic
- Resistant to weather conditions (temperature, water and freezing)

APPLICATION AREAS

Under direct sun exposure, color stability is required;

- Roof, balcony and terrace
- Waterproofing and protection for top of concrete, ceramic, metal, wooden
- Waterproofing and protection for all surfaces applied Hydroflex PU 1K
- Waterproofing and protection for top of thermal insulation applications (PU foam, EPS, XPS etc.)

PU 1K /PRO

One-Component
Polyurethane Based
Aliphatic
UV Resistant
Waterproofing Membrane

PACKAGE

15 kg Metal Bucket

CONSUMPTION

Su izolasyonu için : 1,50 kg/m² (2 coat application) 2,10 kg/m² (2 coat application)

For the final coat: 500 - 700 gr/m² (1 coat application)





HYDROFLEX MS 1K is a one-component, UV resistant, bitumen, solvent and isocyanate free, hybrid polymer based, elastic waterproofing material. It forms a seamless waterproofing membrane that can bridge cracks perfectly by drying on the applied surface.

PRODUCT SPECIFICATIONS

- UV Resistant
- It is environmentally friendly. It does not contain bitumen, isocyanate and solvent.
- Application without primer on both dry and damp surfaces:
- It can be used on interior and exterior at horizontal and vertical surfaces.
- It is applied easily (brush, roll, airless gun, pointed trowel)
- Excellent adhesion
- Crack bridging
- Highly elasticity
- Dyeable
- Water vapor permeability
- Resistant to weather conditions (temperature, water and freezing)

APPLICATION AREAS

- On the all kinds of vertical and horizontal surfaces such as concrete, ceramic, tile, wood, glass, polycarbonate, GRP, metal, stone, marble, tile, brick, betopan, gas concrete;
- In the waterproofing and repairs of chimney connection joints, wall-floor connection points, water drains, roof lights, rain gutters
- Balcony, terrace, roof and valley gutter.
- In the repairs of the joints of the bituminous and sclate
- All kinds of under ceramic toilets, bathrooms, kitchens and other wet areas
- On thermal insulation applications (PU foam, EPS, XPS etc.)

HYDROFLEX MS 1K

One-Component
UV Resistant
Hybrid Polymer Based
Waterproofing Membrane

PACKAGE

In plastic bucket 2 pieces of 7 kilograms aluminum package

CONSUMPTION

3,00 kg/m² (2mm için)





HYDROFLEX AC 1K is a one component, water based, acrylic copolymer based elastic waterproofing membrane.

PRODUCT SPECIFICATIONS

- Ready to be used
- It can be easily applied with an airless spray gun, roller or brush.
- Low labor cost
- Solvent free, can be diluted with water.
- Vapor permeability
- UV Resistant
- Elasticity even at low temperature
- Dyeable
- High Opacity
- It can be painted with water-based paint.
- Hassle-free application

APPLICATION AREAS

Waterproofing for;

- Balconies, Terraces, Roofs
- Facades
- Wooden surfaces
- Asphalt and bitumen surfaces
- Roof details such as gutters, chimneys

HYDROFLEX AC 1K

One-Component
Acrylic Copolymer
Based Elastic
Waterproofing Membrane

PACKAGE

20 kg plastic bucket

CONSUMPTION

2,50 - 3,00 kg/m² (for 2 mm)





HYDROFLEX PU PAINT is a two-component, polyurethane resin based, flexible paint with low solvent content, specially designed for polyurea and polyurethane systems.

PRODUCT SPECIFICATIONS

- Excellent UV resistant
- It increases surface durability and provides mechanical strength
- High flexibility
- Production according to the customized RAL color codes
- Semi-lustrous splendid appearance

APPLICATION AREAS

- It is applied as a protective layer on polyurea coatings and polyurethane insulation systems.
- It can be applied in ornamental and swimming pools.

PU PAINT

Two Component,
Aliphatic Polyurethane
Finishing Paint

PACKAGE

Metal Bucket 20 + 5 kg 20 kg A Component / 5 kg B Component

CONSUMPTION

 $100 - 200 \text{ g/m}^2$







HYDROFLEX POLY 101 is a two component, solvent free, UV resistant, 100% pure polyurea system. It is applied with high pressure and heated special spray machines. As a result of the reaction, a membrane with excellent mechanical and chemical resistance properties is formed on the applied surface. It can be easily used on all kinds of surfaces for waterproofing and coating purposes with the through these features.

PRODUCT SPECIFICATIONS

- Two component, aromatic, UV Resistant
- 100% solids content
- VOC Free, Odorless
- Fast Curing and taking into service
- Jointless
- Opportunity of application in desired thickness
- Applicable on all kinds of surfaces with suitable primer
- Usable on horizontal and vertical surfaces
- Resistant to all kinds of vehicle traffic
- Resistant to puncture by plant roots
- Vapor permeability
- Excellent flexibility and crack bridging
- Excellent chemical and abrasion resistance
- Excellent resistance to weather conditions

APPLICATION AREAS

- General waterproofing applications (roof, terrace, balcony, etc.
- Water tanks, water pipes, ponds and pools
- Sewage and waste water treatment plants
- Roads, bridges and tunnels
- On thermal insulation applications (PU foam, EPS, XPS etc.)
- Foundation and retaining walls
- Car Parking, factory, hospital and other industrial floors
- · Refinery, petrochemical and energy facilities
- Vehicle Safe
- Ship coating and marine facilities

POLY 101

Premium, %100 pure Polyurea Based Waterproofing and Coating Material

PACKAGE

225 kg barrel (A - MDI Prepolimer) 200 kg barrel (B - Amin Resin)

CONSUMPTION







HYDROFLEX POLY 102 is a two component, solvent free, UV resistant, pure polyurea system. It is applied with high pressure and heated special spray machines. As a result of the reaction, a membrane with excellent mechanical and chemical resistance properties is formed on the applied surface. It can be easily used on many surfaces for waterproofing and coating purposes through these features.

PRODUCT SPECIFICATIONS

- Two component, aromatic, UV resistant
- 100% solids content
- VOC-Free, Odorless
- Fast Curing and taking into service
- Jointless
- Opportunity of application in desired thickness
- Applicable on all kinds of surfaces with suitable primer
- Usable on horizontal and vertical surfaces
- Resistant to all kinds of vehicle traffic
- Resistant to puncture by plant roots
- Water vapor permeability
- Excellent flexibility and crack bridging
- Excellent chemical and abrasion resistance
- Excellent resistance to weather conditions

APPLICATION AREAS

- General waterproofing applications (roof, terrace, balcony, etc.)
- Water tanks, water pipes, ponds and pools
- Sewage and wastewater treatment plants
- Roads, bridges and tunnels
- On thermal insulation applications (PU foam, EPS, XPS etc.)
- Foundation and retaining walls
- Ship coating and marine facilities

POLY 102

Standard
Pure Polyurea Based
Waterproofing and
Coating Material

PACKAGE

225 kg barrel (A - MDI Prepolimer) 200 kg barrel (B - Amin Resin)

CONSUMPTION





HYDROFLEX POLY 103 is a two component, solvent free, UV resistant, hybrid polyurea system. It is applied with high pressure and heated special spray machines. The membrane with excellent mechanical and chemical resistance properties is formed on the applied surface as a result of the reaction. It can be easily used on all kinds of surfaces for waterproofing purposes through these features.

PRODUCT SPECIFICATIONS

- Economical polyurea system
- Two component, aromatic, UV resistant
- 100% solids content
- VOC-Free, Odorless
- Fast Curing and taking into service
- Jointless
- Opportunity of application in desired thickness
- Applicable on all kinds of surfaces with suitable primer
- Usable on horizontal and vertical surfaces
- Resistant to puncture by plant roots
- Water vapor permeability
- Excellent flexibility and crack bridging
- Excellent resistance to weather conditions

APPLICATION AREAS

- General waterproofing applications (roof, terrace, balcony, etc.)
- Ceramic, concrete and other underfloor applications
- Roads, bridges and tunnels
- On thermal insulation applications (PU foam, EPS, XPS etc.)
- Foundation and retaining walls

POLY 103

Hybrid Polyurea Based Waterproofing and Coating Material

PACKAGE

225 kg barrel (A - MDI Prepolimer) 200 kg barrel (B - Amin Resin)

CONSUMPTION





HYDROFLEX POLY 104 is a very fast curing, two component, aromatic, flexible, pure polyurea system coating derived from the reaction of isocyanate prepolymer and amine terminated resin mixture. This product is approved for drinking water and food contact. It is specially designed to be waterproofing for drinkable water tanks and pipes. The material should be applied using high pressure, heated multi-component spray proportioning equipment.

PRODUCT SPECIFICATIONS

- Approved for drinking water and food contact
- Fast reaction and return to fast service time:
- 100% solids content, VOC-Free, Solvent-Free
- Environmentally Friendly
- Excellent tensile and structural strength
- Excellent chemical resistance
- Excellent impact and abrasion resistance
- Excellent adhesion on Steel, aluminum, plastic, fiber, wood, foam etc.
- Excellent flexibility
- Excellent crack bridging
- Insensitive to temperature and humidity
- Excellent corrosion protection
- UV, chlorine and salt water resistant
- Variable application thickness is possible.
- Transparent

APPLICATION AREAS

- Drinking water and storage tanks
- Drinking water pipes
- Food production and processing facilities
- Food storage tanks
- Rain storage facilities and settling tanks
- Filtering systems
- Swimming pools and aquariums

POLY 104

Drinking Water
Food Contact Approved
Pure Polyurea

PACKAGE

225 kg barrel (A - MDI Prepolimer) 200 kg barrel (B - Amin Resin)

CONSUMPTION





HYDROFLEX POLY 105 is 100% solid, fast curing, 2-component, UV resistant, aliphatic pure polyurea system. Its formulation is designed to maintain high color stability and prevent color fading on surfaces exposed to constant sunlight. It can be used directly on most surfaces, as well as a top coat on epoxy, polyurethane and polyurea coatings. It forms a coating material with high tensile strength and abrasion resistance after it fully cured. It can be applied on concrete, metal, wood, ceramic and PU foam for protection and coating purposes. It can form strong films of various thicknesses. The material should be applied using high pressure, heated multi-component spray proportioning equipment.

PRODUCT SPECIFICATIONS

- Excellent UV light resistance
- 100% color stability
- Fast reactivity and fast return to service time
- 100% solid, VOC free, odorless
- Excellent tensile and structural strength
- Anti- abrasion
- High hydrolysis resistant
- Excellent temperature stability
- Seamless and jointless coating with high water resistance
- Excellent adhesion on Concrete, steel, aluminum, plastic, wood etc.
- Temperature and humidity insensitive
- Variable application thickness possible
- Wide color range

APPLICATION AREAS

- In exterior coatings where color stability is required
- Swimming pools and aqua parks
- Roofs, garages and car parks
- Airports, shipyards and marinas
- Wind power plants
- Amusement parks and playgrounds
- Decorative designs
- Furniture industry

POLY 105

Aliphatic Pure Polyurea, Provides 100% Color Stability

PACKAGE

210 kg varil (A - MDI Prepolimer) 200 kg varil (B - Amin Resin)

CONSUMPTION







HYDROFLEX POLY REPAIR is a hand-mixable, self-levelling, flexible, two-component polyurea product containing 100% solids with a delayed lifespan. It is developed for time-critical grouting, surfacing and crack repair applications. The product performs well even in adverse weather conditions and the surface can be opened to pedestrian traffic in 1 hour. The product is ideal for use in cold stores, freezers, food processing facilities where time and temperature are of great importance.

PRODUCT SPECIFICATIONS

- 100% solid, VOC free, odorless
- It can be mixed and applied by hand
- It reacts fast
- The applied surface is ready for use in 60 minutes
- Excellent tensile and structural strength
- It is not sensitive to temperature and humidity
- It also maintains its flexibility at cold temperatures
- It is resistant to petrochemical and chemical products

APPLICATION AREAS

- In minor repair of existing polyurea
- In crack repair in concrete
- In the filling of concrete connection points
- As floor covering in the following areas
- Airport
- Parking Lot and garages
- Industrial facilities
- Warehouses
- Manufacturing facilities
- Food processing plants
- Cold stores

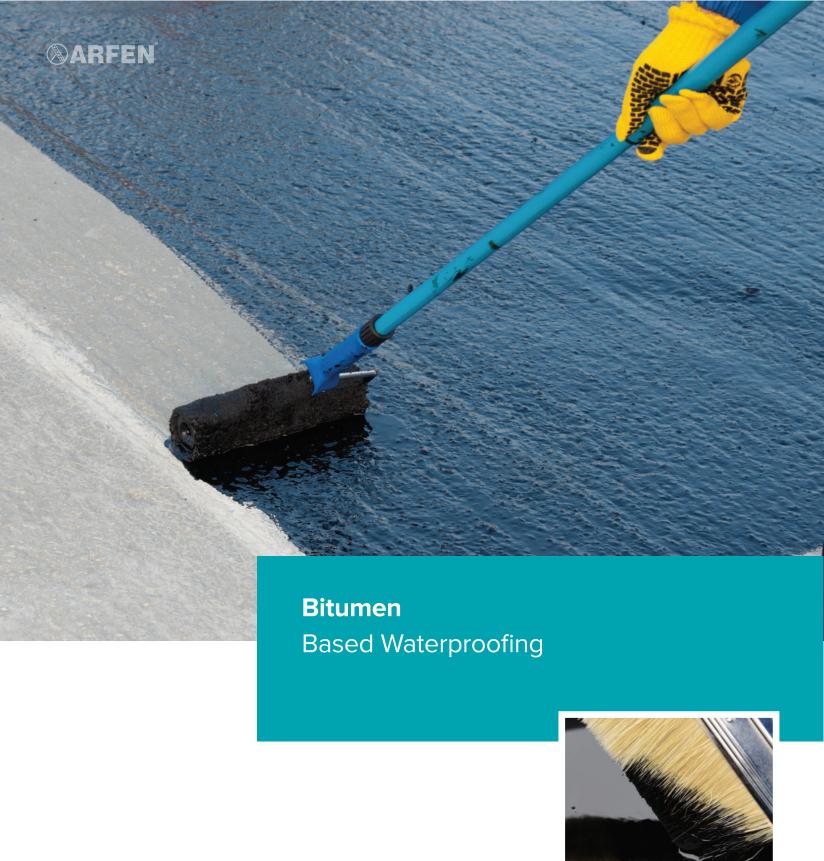
POLY REPAIR

Two Component Polyurea Based Filling and Repair Material

PACKAGE

3 kg iso komponent 3 kg amin komponent





Bitumen Emulsion Based Primer Bitumen & Polyurethane Based Waterproofing Polymer Modified Bitumen Rubber Waterproofing Elastomeric Bitumen Rubber Based Joint Paste



It is a polymer modified bitumen rubber based, one component, waterproofing product. It is easily applied with a brush, trowel or spray machine, provides a permanent flexible insulation.

APPLICATION AREAS

- On foundation and retaining walls
- In wet areas, retaining walls
- On horizontal and vertical surfaces
- In the protection and waterproofing of buildings and building elements exposed to leakage water, temporary or permanent water pressure.
- In the external waterproofing of water tanks
- In the waterproofing of basements and warehouses,
- It can be applied for bonding of waterproofing and drainage boards.
- Since it is not a UV resistant product, it should be covered properly after application.

ADVANTAGES

- It is easy to prepare and apply
- It provides a monolith waterproofing
- It adheres perfectly to the applied surface
- It has crack bridging feature
- It is a water-based product and is environmentally friendly
- It can be applied on vertical and horizontal surfaces, does not flow

HYDROFLEX BITUMEN 1K

Polymer Modified
Bitumen Rubber Based
One-component
Waterproofing Material

PACKAGE

30 kg Plastic Bucket

CONSUMPTION

 $4,50 - 5,00 \text{ kg/m}^2$ (for 3 mm) In areas exposed to continuous pressurized water $6,00 \text{ kg/m}^2$ (for 4 mm)





It is a polymer modified bitumen rubber based, two component waterproofing product. It is easily applied with a brush, trowel or spray machine and provides a permanent flexible insulation.

APPLICATION AREAS

- On foundation and retaining walls
- In wet areas, retaining walls
- On horizontal and vertical surfaces,
- In the protection and insulation of building elements from water and moisture
- In the external waterproofing of water tanks
- In the waterproofing of basements and warehouses
- It can be applied for bonding of waterproofing and drainage boards
- Since it is not a UV resistant product, it should be covered properly after application.

ADVANTAGES

- It is easy to prepare and apply.
- It provides a monolith waterproofing
- It adheres perfectly to the applied surface.
- It has crack bridging feature.
- It is a water-based product and is environmentally friendly.
- It can be applied on vertical and horizontal surfaces, does not flow.

HYDROFLEX BITUMEN 2K

Polymer Modified
Bitumen Rubber Based
Two component
Waterproofing Material

PACKAGE

24 kg + 8 kg Plastic Bucket

CONSUMPTION

 $4,50 - 5,00 \text{ kg/m}^2$ (for 3 mm) In areas exposed to continuous pressurized water $6,00 \text{ kg/m}^2$ (for 4 mm)





Bitumen emulsion based primer. It is used to increase the adhesion strength of the bituminous liquid and cover membranes to be applied on the surface through its superior adhesion feature.

PRODUCT SPECIFICATIONS

- It is one component
- It is water based
- It is economical, easy to apply, reduces labor costs.
- It can be applied to horizontal and vertical elements, is jointless, does not form joints
- It also acts as a moisture barrier

PRODUCT INFORMATIONS

- It is dark brown liquid, it turns black when fully dried
- It is suitable to use for 12 months from the date of production when stored properly in unopened and undamaged packages, in a dry environment between +5°C and +35°C
- Solid content: 20-25%Density: 1- 1,05 kg/lt

HYDROFLEX BITUMEN PRIMER 01

Bitumen Emulsion
Based Primer

PACKAGE

15 kg Plastic Bucket

CONSUMPTION

300 – 500 gr/m² (One-Coating Using)





It is a bitumen emulsion based concentrated primer. It is used to increase the adhesion strength of the bituminous liquid and cover membranes to be applied on the surface through its superior adhesion feature.

PRODUCT SPECIFICATIONS

- It is one component, dense consistency.
- It is water-based.
- It can be diluted with water at the rate of 1/1 1/3. The usage cost is low.
- It provides storage and shipping advantages.
- Easy to apply, reduces labor costs.
- It can be applied to horizontal and vertical elements, is jointless, does not form joints.
- It also acts as a moisture barrier.

PRODUCT INFORMATIONS

- It is dark brown liquid, it turns black when fully dried.
- It is suitable to use for 12 months from the date of production when stored properly in unopened and undamaged packages, in a dry environment between +5°C and +35°C.
- Solid content: 60-65 %
- Density: 1-1,05kg/lt

HYDROFLEX BITUMEN PRIMER 02

High Solids Primer

PACKAGE

15 kg plastic bucket

CONSUMPTION

250 – 500 gr/m² (One-Coating Using)





It is a bitumen-rubber based elastic joint sealant with hot application, used in horizontal and inclined joints.

ADVANTAGES

- Its high elasticity is maintained even at low and high temperatures.
- It can maintain its elasticity between -20°C and +80°C temperatures.
- It can be heated in a special double-walled boiler or directly on the stove.
- It can be used safely in water tanks, it does not mix with drinking water.

APPLICATION AREAS

- In dilatations and joints
- At the joints of large surface concrete pavements
- Dams, canals and canallettes
- In the assembly of glass road buttons
- Concrete road, bridge, highway, airports
- \bullet Water impermeability in other places where there is a possibility of expansion,
- It can be used for filling, repair and bonding purposes.

HYDROFLEX BITUMEN J01 J02

Elastomeric Bitumen Based Hot Applied Joint Putty

PACKAGE

Cardboard Box (Bitumen J02): 17 Kg 17 Kg Tin Bucket (Bitumen J01): 17 Kg





It is a one component, fast curing, elastic, cold applied liquid membrane containing polyurethane and bitumen. It forms a highly elastic film by adhering perfectly to any surface it is applied to.

ADVANTAGES

- It does not create any water leakage and connection in the applied area,
- Its flexibility is very high,
- · Cures fast,
- On the sandwich panel,
- Resistant to stagnant water and freezing,
- Prevents water vapor,
- It has crack bridging feature,
- Effectively adheres to any surface with or without a primer,
- Heat resistance performance in wide temperature range with -40 degrees is between 90 degrees,
- Provides effective resistance against chemicals,
- Also can be used as joint material.

APPLICATION AREAS

- Floors
- Foundations
- Bridge platforms
- Cut-and-cover tunnels
- Concrete structures, retaining walls
- Gypsum and cement panels
- EPDM membranes
- Asphalt membranes
- Green roofs and plant beds
- Light roofs

HYDROFLEX BITUMEN PU 1K

Bitumen &
Polyurethane Based
One Component
Waterproofing Material

PACKAGE

25 kg plastic bucket

CONSUMPTION

1,50 - 2,00 lt/m²





It is a two component, fast curing, elastic, cold applied liquid membrane containing polyurethane and bitumen. It forms a highly elastic film by adhering perfectly to any surface it is applied to.

ADVANTAGES

- It does not create any water leakage and connection in the applied area
- Its flexibility is very high,
- Cures fast,
- On the sandwich panel,
- Resistant to stagnant water and freezing
- Prevents water vapor
- It has crack bridging feature
- Effectively adheres to any surface with or without a primer,
- Heat resistance performance in wide temperature range with -40 degrees is between 90 degrees,
- Provides effective resistance against chemicals
- Also can be used as joint material.

APPLICATION AREAS

- Floors
- Foundations
- Bridge platforms
- Cut-and-cover tunnels
- It can be applied with netting
- Concrete structures, retaining walls
- Gypsum and cement panels
- EPDM membranes
- Asphalt membranes
- Green roofs and plant beds
- Light roofs

HYDROFLEX BITUMEN PU 2K

Bitumen &
Polyurethane Based
Two Component
Waterproofing Material

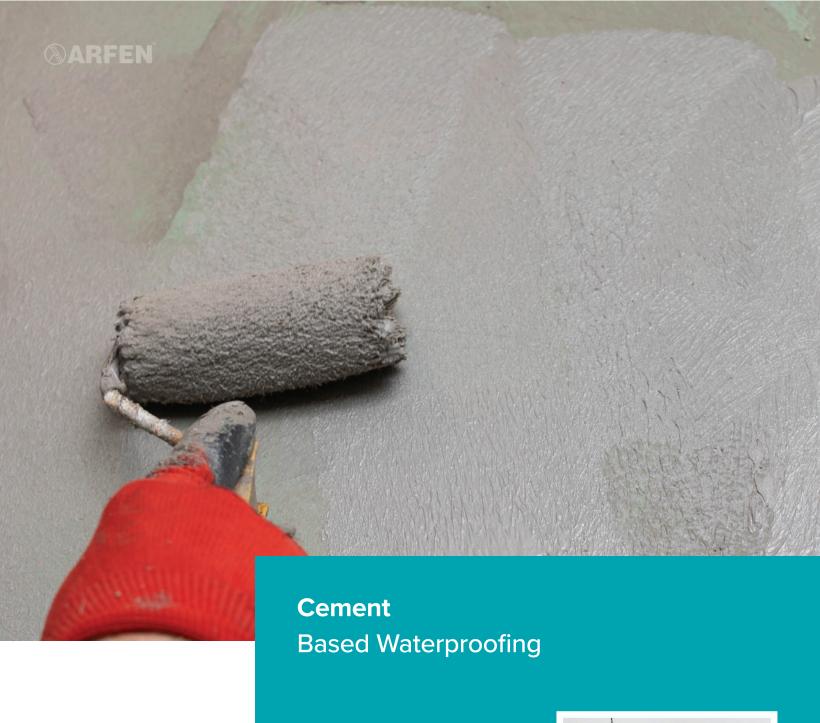
PACKAGE

20 kg + 20 kg plastic bucket

CONSUMPTION

 $1,50 - 2,00 \text{ lt/m}^2$







Cement and Acrylic Based Waterproofing

Cement Based Uv Resistant Waterproofing

Cement Based Crystallized Waterproofing

Cement Based Shock Stiffening Water Stopper Mortar



It is a cement and acrylic based, semi-flexible waterproofing material designed for all kinds of reinforced concrete surfaces and cement based plasters.

APPLICATION AREAS

- Interior exterior, vertical and horizontal, from the positive direction of the water,
- In semi-olympic swimming pools and thermal pools,
- In water tanks (with the condition of being protected upper surface),
- In the wall and floor coverings of cold storage depot,
- In wet areas such as WC, bathroom, balcony, kitchen,
- On terraces (with the condition of being covered upper surface),
- In foundation, retaining walls,
- It is used in flower bed insulation.

ADVANTAGES

- It is semi-flexible and impermeable.
- It is easy to prepare and apply.
- It can be applied with a brush or sprayer.
- The service life is long.
- It creates a waterproofing layer under the screed and ceramic through its high adhesion performance and semi-elasticity.
- It creates a jointless, continuous, permanent, waterproof coating.
- It is resistant to chemicals and salt solutions in the soil.
- It is permeable to water vapor.
- It is resistant to freeze-thaw cycle.
- It can be used in drinking water tanks.

PACKAGE

AR-CHEM 2K Component A 20 kg polyethylene reinforced kraft bag AR-CHEM 2K Component B 5 kg plastic drum

CONSUMPTION

1. Coat :1,00 kg/m 2 – 2. Coat :1,50 kg/m 2 – 3. Coat :1,50 kg/m 2

HYDROFLEX AR-CHEM 2K

Cement & Acrylic Based Two Component Semi-Flexible Waterproofing Material







AR-CHEM 2K FLEX is a cement and acrylic based, fully flexible waterproofing material designed for all kinds of reinforced concrete surfaces and cement based plasters.

APPLICATION AREAS

- Interior exterior, vertical and horizontal, from the positive direction of the water,
- In water tanks (with the condition of being protected upper surface),
- In olympic swimming pools and thermal pools,
- In the wall and floor coverings of cold storage depot,
- In wet areas such as WC, bathroom, balcony, kitchen,
- On terraces (with the condition of being covered upper surface),
- In foundation, retaining walls
- It is used in flower bed insulation.

ADVANTAGES

- It is fully flexible and impermeable.
- It is easy to prepare and apply.
- It can be applied with a brush or sprayer.
- The service life is long.
- It creates a waterproofing layer under the screed and ceramic through its high adhesion performance and semi-elasticity.
- It creates a waterproof layer under screed and ceramic.
- It creates a jointless, continuous, permanent, waterproof coating.
- It is resistant to chemicals and salt solutions in the soil.
- It is permeable to water vapor.
- Its durability is high.
- It can be used in dynamic and vibrating areas.
- It is resistant to freeze-thaw cycle.
- It can be used in drinking water tanks.

PACKAGE

AR-CHEM FLEX 2K Component A 20 kg polyethylene reinforced kraft bag AR-CHEM 2K Component B 10 kg plastic drum

CONSUMPTION

1.Coat: 1,20 kg/m² - 2.Coat: 1,00 kg/m² - 3.Coat: 1,00 kg/m²

HYDROFLEX AR-CHEM 2K FLEX

Cement and Acrylic Based Two Component Fully Flexible Waterproofing Material







AR-CHEM 2K UV is a two-component, cement and acrylic based, UV resistant, white colored, flexible waterproofing material developed to create an effective barrier against salts carried through water and gases in the atmosphere.

APPLICATION AREAS

- Interior exterior, vertical and horizontal, from the positive direction of the water,
- In prefabricated concrete eaves trough and gutter insulation
- It can be left open under light load on terraces.
- In the foundation waterproofing from the direction of the water
- Retaining walls
- In wet areas such as WC, bathroom, balcony, kitchen,
- Swimming pools
- In drinking and utility water tanks.
- In sea water channels
- Where waterproofing and protection against salty water is required.
- In the protection of concrete surfaces against carbonation and chlorine attacks
- It is used in flower bed insulation.

ADVANTAGES

- 1 mm thick AR-CHEM 2K UV provides equal protection against carbonation to 80 mm thick concrete.
- Waterproof, withstands water at 7 bar pressure.
- It reduces alkali-silica interaction in concrete over concrete applications.
- It has excellent adhesion property.
- Its preparation and application is easy.
- It can be applied with a brush and sprayer.
- The service life is long.
- It is white in color and resistant to UV rays.
- It is resistant to light pedestrian traffic.
- Despite its waterproof feature; It has high water vapor permeability.
- It has high durability; It is resistant to freeze-thaw cycle.
- It is resistant to carbon dioxide and chlorine in atmospheric conditions.
- For conventional waterproofing materials, a waiting period of 7-28 days is required on the concrete surfaces to be applied; AR-CHEM 2K UV can be applied on concrete for 24 hours.
- It can be used in drinking water tanks.

HYDROFLEX AR-CHEM 2K UV

Cement and Acrylic Based UV Resistant Two Component, White Color, Flexible Waterproofing Material

PACKAGE

AR-CHEM 2K UV Component A 25 kg polyethylene reinforced kraft bag AR-CHEM 2K UV Component B 8 kg plastic drum

CONSUMPTION

1.Coat :1,50 kg/m 2 – 2.Coat :1,50 kg/m 2 – 3.Coat :1,00 kg/m 2 (3 Bar) Total: 6 kg/m 2 (7 Bar)





AR-CHEM 1K CAPILER is a cement-based, single-component, capillary effect, crystallized waterproofing material that is applied on concrete negatively and positively against surface water in old and new buildings.

APPLICATION AREAS

- Interior and Exterior Spaces
- In horizontal and vertical applications,
- Water tanks
- In foundation, curtain and retaining walls,
- Elevator pits
- Used against ground moisture in basements

ADVANTAGES

- It just mixes with water
- Easy and fast to apply,
- The service life is long.
- Resistant to negative and positive water pressure,
- It provides water impermeability on concrete surfaces through its hydrophobic and capillary properties.
- Protects concrete and reinforcement aganist corrosion
- It is permeable to water vapor.
- Resistant to freezing and thawing effects,
- It can be used in drinking water tanks,
- The crystals it forms are insoluble, do not separate from the surface and do not become old.
- It is the most economical solution that can be done from the negative side.

PACKAGE

20 kg polyethylene reinforced kraft bag

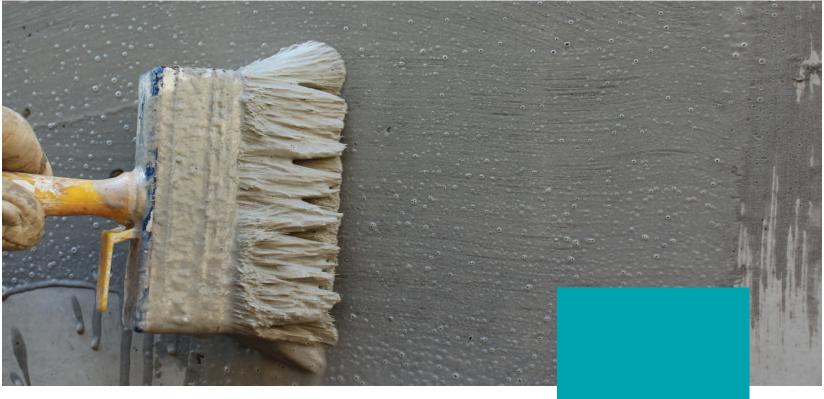
CONSUMPTION

1.Coat :1,00 $kg/m^2 - 2.Coat :1,00 kg/m^2$

HYDROFLEX AR-CHEM 1K KAPİLER

Cement Based
One Component
Capillary Effect
Crystallized
Waterproofing Material





AR-CHEM 2K CAPILER is a cement and polymer dispersion based, two component, fully flexible waterproofing material that prevents moisture, leakage and surface water on concrete surfaces and can be applied from both negative and positive directions.

APPLICATION AREAS

- Interior exterior, vertical and horizontal applications,
- On terraces (with the condition of being covered upper surface),
- In soft water (PH=3-7) storage pools used in the textile industry,
- Air Conditions reservoirs
- In Olympic swimming pools and thermal pools,
- In water tanks,
- In wall and floor coverings of cold storage rooms
- In all wet areas of the building such as WC, bathroom, kitchen
- As a part of the foundatition waterproofing system, in areas sensitive to movement, vibration and slight settlements,
- In protecting concrete from carbonation, water and deicing salts,
- In waterproofing of foundation retaining walls

ADVANTAGES

- It is effective in negative and positive directions (1 bar negative 1.5 bar positive)
- It has very high adhesion strength. It works with the surface to which it is adhered
- It is water vapor and air permeable
- It has high resistance to freezing thawing effect
- It has high resistance to CO2 ions
- It is used in drinking water tanks

PACKAGE

Component A 25 kg polyethylene reinforced paper bag Component B 10 kg plastic drum

CONSUMPTION

1.Coat :1,50 $\,\mathrm{kg/m^2} - 2.\mathrm{Coat}$:1,30 $\,\mathrm{kg/m^2} - 3.\mathrm{Coat}$:1,30 $\,\mathrm{kg/m^2}$

HYDROFLEX AR-CHEM 2K KAPİLER

Cement and Polymer
Dispersion Based
Two component
Fully Flexible
Waterproofing Material







AR-CHEM WATERSTOP is one component waterproofing material that is cement based, contains special mineral fillers and chemical additives, prevents active water leaks and leaks, has water repellent properties, sets quickly, swells slightly during hardening and provides a plug feature where it is applied.

APPLICATION AREAS

- In the repair of static cracks
- In the insulation and clogging of active water leaks
- In the waterproofing of pipe and cable passages
- Chamfering concrete edge and corner joints, repairing defects
- In crack repairs on plaster and concrete before waterproofing process
- In filling tie-rod clearance
- It is used in all kinds of fast assembly and repair works.

ADVANTAGES

- It is easy to prepare and apply.
- It can be applied in both forms as powder or mixed with water as a mortar.
- It has early high strength.
- It stops active water leaks by instant setting.
- It provides excellent adherence to the applied surface.
- It does not contain chloride, it does not harm the equipment.

PACKAGE

5 kg plastic drum

CONSUMPTION

It is variable.

HYDROFLEX AR-CHEM WATER STOP

Cement Based Fast Setting Waterproofing Plug





AR-CHEM TURBO WATERSTOP is a cement based insulation plug reinforced with special chemical additives and polymers, which can be applied directly to the area where there are active water leaks and leaks in powder form and provides water plug feature with in 3-4 seconds.

APPLICATION AREAS

- On all kinds of mineral-essential surfaces,
- In the blocking of water leaking from cracks and cavities or coming under pressure,
- It is used for filling and blocking water leaks before waterproofing.

ADVANTAGES

- It is ready to use.
- It blocks active water leaks by setting very fast.
- It prevents the steel reinforcements corrosion
- Insulation materials can be applied on it shortly after its application.

PACKAGE

5 kg plastic drum

CONSUMPTION

2 kg powder product for 1 lt space

AR-CHEM TURBO WATER STOP

Cement Based Freezing in 3-4 seconds Shock Setting Water Plug







Chemical Anchor **Epoxy & Grout Mortars**Repair Mortars **Polyurethane and Epoxy Based Primers**



It is a solvent-free, 3-component, casting mortar consisting of a combination of specially graded aggregates and high-strength epoxy resins. It is a self-leveling, flowing epoxy mortar that can be applied on concrete, stone, mortar, steel, aluminum, asbestos cement, polyester, wood and epoxy based materials.

APPLICATION AREAS

- In industrial floors,
- In border bowls,
- In bridge supports,
- In the repair of aircraft and helipads,
- In joint repairs on highways,
- In engineering structures such as subway, highway, dam,
- Reinforcement Projects.
- In the assembly of prefabricated elements.

ADVANTAGES

- It doesn't shrink, shows a flowing feature.
- Resistant to oils and acids.
- It is solvent free.
- It is waterproof.
- It is resistant to freezing and thawing.
- It is resistant to various chemicals.

PACKAGE

30 kg set

CONSUMPTION

2,3 kg/m² (for 1 mm thickness)

HYDROFLEX **EBOND**

01

Three Component Impact Resistant Epoxy Grout Mortar





It is an epoxy acrylate based, two component, thixotropic, cartridge, fast curing, anchorage epoxy.

APPLICATION AREAS

- In anchoring/repairs of Reinforcement and connecting rods to concrete, hollow or solid brick, etc.
- In metal ore planting,
- In prefabricated element anchors,
- In fixing injection packers and apparatus,
- Anchors of bolts and pins,
- In the assembly of Central heating and ventilation's pipes and plumbing etc.
- It is used for bonding of all kinds of building materials.

ADVANTAGES

- It hardens very quickly and gains its mechanical strength very quickly.
- It is easy to apply and saves time.
- It does not sag, it can be used easily in overhead applications.
- Protects equipment against corrosion.
- It has high resistance against chemicals.

PACKAGE

410 ml cartridge

CONSUMPTION TABLE

Rebar Diameter (mm)	Hole Diameter (mm)	Depth (mm)	Hole Volume (ml)	Rebar Volume (ml)	Epoxy Volume (ml)	Desired Force (ton) (5 Saat)	Desired Force (ton) (24 saat)	Desired Force (ton) (72 saat)	Desired Force (ton) (7 Gün)
10	14	150	23,079	11,775	11,304	1,43	2,01	2,58	2,87
12	16	180	36,173	20,347	15,826	2,06	2,89	3,71	4,13
14	18	210	53,411	32,311	21,101	2,81	3,93	5,05	5,62
16	20	240	75,360	48,230	27,130	3,67	5,13	6,60	7,34
18	22	270	102,584	68,672	33,912	4,64	6,50	8,36	9,28
20	24	300	135,648	94,200	41,448	5,73	8,02	10,31	11,46
22	26	330	175,118	125,380	49,738	6,93	9,71	12,48	13,87
24	28	360	221,558	162,778	58,781	8,25	11,55	14,85	16,50
26	30	390	275,535	206,957	68,578	9,68	13,56	17,43	19,37
28	32	420	337,613	258,485	79,128	11,23	15,72	20,22	22,46
30	34	450	408,357	317,925	90,432	12,89	18,05	23,21	25,79
32	36	480	488,333	385,843	102,490	14,67	20,54	26,41	29,34

^{32 36 480 488,333 385,843 102,490 14,67 20,54 26,41 29,34 *}The amounts given table are completely based on theoretical calculations, and the losses that may occur at the construction site are not taken into account.

HYDROFLEX EBOND

Epoxy Acrylate Based Two Component Anchor Epoxy





It is an epoxy acrylate polyester based, two component, thixotropic, cartridge, fast curing, anchorage epoxy.

APPLICATION AREAS

- In anchoring/repairs of Reinforcement and connecting rods to concrete, hollow or solid brick, etc.
- In metal ore planting,
- In prefabricated element anchors,
- For fixing injection packages and apparatus
- Anchors of bolts and pins
- In the assembly of Central heating and ventilation's pipes and plumbing etc.
- It is used for bonding of all kinds of building materials.

ADVANTAGES

- It hardens very quickly and gains its mechanical strength very quickly.
- It is easy to apply and saves time.
- It is in paste form; It does not sag, it can be used easily in overhead applications.
- Protects equipment against corrosion.
- It has high resistance against chemicals.

PACKAGE

345 ml cartridge

HYDROFLEX EBOND

U b Epoxy Acr

Epoxy Acrylate Polyester Based Two Component Anchor Epoxy





AR-CHEM GROUT is a cement-based, high-strength, self-levelling grout mortar that does not shrink.

APPLICATION AREAS

- In the application of retaining walls and column initial heads.
- In the assembly of prefabricated concrete building elements
- In power plants
- Fixing steel columns to the foundation
- Fixing all kinds of industrial machines, generators, compressors and pumps
- It is used in reinforced concrete and steel wrap (sheathing) reinforcement applications, filling the spaces left under control.

ADVANTAGES

- It can only be mixed with water, it is applied easily by pouring into mold
- It provides high adherence to concrete and reinforcement.
- It has high pressure resistance.
- It is resistant to freeze thaw cycle.
- It shows high fluidity.
- No Water bleeding.
- Expands in plastic and early hardening stages.
- It does not change its physical properties depending on the weather conditions during the service period .
- It is waterproof. Resistant to chlorine, sulfate attacks and oils.
- It does not shrink (shrinkage).

PACKAGE

25 kg polyethylene reinforced kraft bag

CONSUMPTION

Approximately 19 kg/m^2 of powder product should be used to obtain 1 cm thickness layer.

HYDROFLEX AR-CHEM GROUT

Cement Based
One-Component
High Strength
Fluid Grout Mortar





AR-CHEM GROUT / PRO is a cement-based, polymer-reinforced, fluid consistency, fast-setting repair mortar developed for places requiring high strength in a short time. Public Works Pos. No: 04.613/3c

APPLICATION AREAS

- Raising and installing manhole cover bearings
- In the repair of sewer and manhole walls
- In the rapid repair of runway and platform concretes,
- Repairing concrete floors exposed to vehicular and pedestrian traffic
- It is used in the assembly of curbs/paving stones.

ADVANTAGES

- It gains strength quickly, can be opened to traffic 1 hour after its application.
- Deterioration is prevented through the very high early strength.
- It can only be mixed with water, it is applied easily by pouring into mold
- It has high compressive strength.
- It shows high fluidity.
- It does not decompose and does not vomit water.
- It is resistant to freeze thaw cycle.

PACKAGE

25 kg polyethylene reinforced kraft bag

CONSUMPTION

Approximately $21 \, \text{kg/m}^2$ of powder product should be used to obtain 1 cm thickness layer.

HYDROFLEX AR-CHEM GROUT PRO

Cement Based
One Component
Early High
Having Strength
Fluid Grout Mortar





It is a two-component, high-strength epoxy material with thixotropic consistency, specially developed for the adhesion of TPE dilatation tapes used for waterproofing purposes, in horizontal and vertical dilatation applications.

APPLICATION AREAS

- In bonding dilatation tapes to concrete,
- In the repair/bonding of all kinds of materials such as concrete, marble, stone
- It is used for bonding materials such as tiles and granite to glossy surfaces.

ADVANTAGES

- It is a very easy material to apply.
- It is water and gas impermeable.
- It is resistant to chemicals and abrasion.
- It provides excellent adherence to concrete.
- Doesn't retract.

PACKAGE

5 kg ready set

CONSUMPTION

Approximately 1.50 kg/m depending on the concrete surface and workmanship (in dilatation bands application)

HYDROFLEX **21**

Two Component Epoxy Based Dilatation Tape Adhesive





It is a solvent-free, 3-component, repair mortar consisting of a combination of specially graded aggregates and high-strength epoxy resins. After mixing, it has a consistency that can be applied with a trowel and has very good adhesion to cementitious surfaces.

APPLICATION AREAS

- In installation the dilatation profiles to the finish level,
- In anchorage works,
- In Bedding Concrete
- As a high-strength material in filling mortars or repairing horizontal concrete surfaces.
- In crane rail mounting,
- In bridge supports,
- In the repair of aircraft and helipads,
- In fixing steel columns and poles,
- On the basis of all kinds of industrial machinery, under beds
- In engineering structures such as subway, highway, dam,
- In repair, fixing and reinforcement projects where reinforced concrete curtains join with beams,
- In the assembly of prefabricated elements.

ADVANTAGES

- Does not shrink,
- Resistant to oils and acids.
- It is not toxic.
- It is waterproof.
- It is resistant to freezing and thawing.
- It is resistant to various chemicals.
- It has high abrasion and impact resistance.
- It has high mechanical strength.

PACKAGE

20 kg set

HYDROFLEX EPOXY MORTAR

Three Component Impact Resistant Epoxy Mortar



HYDROFLEX PU PRIMER 1K is a one-component, transparent, semi-elastic, deep penetrating polyurethane primer. It is a solvent based product. It cures with moisture on the surface and in the air. It is used in waterproofing applications and absorbent surfaces.

APPLICATION AREAS

HYDROFLEX PU PRIMER 1K is used as an impregnation primer especially in waterproofing applications to be made on concrete, wood or cement-based absorbent surfaces. It can also be used before polyurethane sealant applications in dilatation and joint insulation.

ADVANTAGES

- Low viscosity
- Can be applied interior and exteriors.
- Easy to apply (brush, roller, airless gun)
- Ability to penetrate deep
- Excellent adhesion on porous non-porous surfaces
- Prevent blistering and perforation
- Preventing dust on the surface

PACKAGE

15 Kg Metal Bucket

CONSUMPTION

Consumption is 200-250 g/m² in a single coat application. Consumption may vary depending on surface permeability, weather conditions, application technique. If necessary, a second coat can be applied.

HYDROFLEX PU PRIMER 1 K

One Component
Solvented Semi-Elastic
Deeply Penetrating
Polyurethane Based Primer





HYDROFLEX PU PRIMER 2K is a two-component, solvent-free, polyurethane primer specially designed to increase adhesion and improve surface leveling prior to waterproofing membranes. It penetrates and clings to the pores of the substrate while acting as a bonding layer with membranes.

APPLICATION AREAS

It is specially designed to increase the adherence of surfaces and improve surface properties before coating applications.

ADVANTAGES

- 100% solid
- Low viscosity
- Odorless
- Pinhole and bubble-free surface
- Excellent adhesion to concrete, metal and wood
- Easy to apply (brush, roller or airless spray)

PACKAGE

16 kg packages; Component A: 12 kg and Component B: 4 kg

CONSUMPTION

150-300 gr /m²

Factors such as surface roughness and porosity, application method can change the consumption.

HYDROFLEX PU PRIMER 2 K

Two Component
Semi-Elastic Solvent Free
Deeply Penetrating
Polyurethane Based Primer





It is a two-component, epoxy resin-based, solvent-free, low-viscosity, transparent, mineral-based primer developed for concrete surfaces.

APPLICATION AREAS

- In epoxy and polyurethane floor coating systems,
- In insulation systems such as Polyurethane, polyurea,
- It is used for repairing, filling and chamfering the lower surface by adding special silica sand.

ADVANTAGES

- Easily applied with a roller or brush.
- Low viscosity
- Can be applied without joint.
- It provides excellent adherence to concrete, cement and mineral based surfaces.
- Solvent-Free
- Doesn't make dust

PACKAGE

A Component	B Component	(A+B) Set
15 kg tin	6 kg tin	21 kg set

CONSUMPTION

Depending on the surface condition; Situations such as pore structure of the floor, absorbency, etc. can increase consumption. It is recommended to make a trial for consumption control on the surface to be applied. Theoretical consumption as a primer: 300 gr/m²–500 gr/m²

HYDROFLEX EPO PRIMER 2 K

Two Component Epoxy Resin Based Solvent-Free Primer Material





It is a two-component, epoxy resin-based, solvent-free, low-viscosity, transparent, mineral-based primer developed for concrete surfaces.

APPLICATION AREAS

- In epoxy and polyurethane floor coating systems,
- In insulation systems such as Polyurethane, polyurea etc,
- It is used for repairing, filling and chamfering on the sub-surface by adding special silica sand.

ADVANTAGES

- Easily applied with a roller or brush.
- Low viscosity
- Can be applied without joint.
- It provides excellent adherence to concrete, cement and mineral based surfaces.
- Solvent-Free
- Doesn't make dust

PACKAGE

A Component	B Component	(A+B) Set
15 kg tin	6 kg tin	21 kg set

CONSUMPTION

Depending on the surface condition; Situations such as pore structure of the floor, absorbency, etc. can increase consumption. It is recommended to make a trial for consumption control on the surface to be applied. Theoretical consumption as a primer: $300 \text{ gr/m}^2 - 500 \text{ gr/m}^2$

HYDROFLEX EPO PRIMER 2 K PRO

Two Component Solvent Free Moisture Tolerant Epoxy Based Primer





AR-CHEM REPAIR 01 is a cement based, one component, polymer reinforced, fine repair and surface smoothing mortar that provides smooth finishing on exposed concrete surfaces.

APPLICATION AREAS

- Repairing and plastering surfaces after demoulding on gross concrete surfaces,
- In the repair of broken and impacted prefabricated concrete elements,
- In plastering and repairing walls and ceilings,
- In the repair of corners and edges,
- On gas concrete, brick and briquette,
- It is used to obtain a smooth substrate before laying tiles and ceramics.

ADVANTAGES

- It is easy to apply. It is ready for use by simply mixing with water.
- It is suitable for use with spraying and trowel.
- Provides smooth surface finish.
- It has high stability.
- It provides high adhesion performance to concrete and plastered surfaces.
- It does not sag and flow after application through its thixotropic feature.
- It is resistant to freeze-thaw cycles.
- It does not harm the environment and human health.

PACKAGE

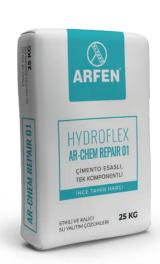
25 kg Kraft Bag

CONSUMPTION

 $1.25~{\rm kg/m^2}$ powder product is required for 1 mm thickness. Recommended application thickness min. 1mm / max. It is 5 mm.

HYDROFLEX AR-CHEM REPAIR 01

Cement Based
One Component
Fine Repair Mortar





AR-CHEM REPAIR 02 is a cement based, one component, polymer reinforced, thick repair and surface smoothing mortar that provides smooth finishing on exposed concrete surfaces.

APPLICATION AREAS

- Repairing and plastering surfaces after demoulding on gross concrete surfaces,
- In the repair of broken and impacted prefabricated concrete elements,
- In plastering and repairing walls and ceilings,
- In the repair of corners and edges,
- On gas concrete, brick and briquette,
- It is used to obtain a smooth substrate before laying tiles and ceramics.

ADVANTAGES

- It is easy to apply. It is ready for use by simply mixing with water.
- It is suitable for use with spraying and trowel.
- Provides smooth surface finish.
- It has high stability.
- It provides high adhesion performance to concrete and plastered surfaces.
- It does not sag and flow after application through its thixotropic feature.
- It is resistant to freeze-thaw cycles.
- It does not harm the environment and human health.

PACKAGE

25 kg Kraft Bag

CONSUMPTION

 $1.75~kg/m^2$ powder product is required for 1 mm thickness. Recommended application thickness min. 5mm / max. It is 20 mm.

HYDROFLEX AR-CHEM REPAIR 02

Cement Based
One Component
Thick Repair Mortar





AR-CHEM REPAIR 03 is a cement based, one component, polymer and fiber reinforced, thixotropic, high strength repair mortar. It complies with the Public Works item No: 04.613/3b EN 1504-3 standard/R4 class.

APPLICATION AREAS

- Repair and leveling of surface defects of high-strength concrete elements;
- In chamfering at joints,
- In floor concrete repairs,
- In the repair of marine structures,
- In the coating of concretes to protect them against the effects of sulfate and chlorine,
- It is used for repairing tie-rod holes and core cavities.

ADVANTAGES

- It can only be mixed with water, easy to apply,
- Provides high adherence to concrete and reinforcement,
- It has high pressure resistance,
- It shows high thixotropic properties,
- It is waterproof,
- It is resistant to freezing thawing cycles,
- No primer required
- Does not shrink (shrinkage),
- Quickly Strength
- Resistant to chlorine, sulfates and oils.

PACKAGE

25 kg polyethylene reinforced kraft bag

CONSUMPTION

Approximately $1.9 - 2.0 \text{ kg/m}^2$ powder product should be used to obtain 1 mm thickness.

HYDROFLEX AR-CHEM REPAIR 03

Cement Based
One Component
High Strength
Structural Repair Mortar





It is a cement-based, polymer-modified, one component coating material used as corrosion protection and adherence mortar.

APPLICATION AREAS

- In the reinforcements required to prevent corrosion,
- It is used as a primer before applying the repair mortar.

ADVANTAGES

- It adheres excellently to concrete and steel.
- It has high mechanical strength.
- It protects the rebars against moisture and humidity.
- Resistant to the effects of frost-removing salts.
- Easy to apply.

PACKAGE

25 kg Kraft Bag

CONSUMPTION

Approximately 1.55 kg of powder product is used for 1 liter fresh mortar. If it is to be applied as a primer, 1.50 - 2.0 kg/m 2 powder material is required.

HYDROFLEX AR-CHEM REPAIR 05

Cement Based
One Component
Anti-Corrosion
Adherence Provider Mortar





AR-CHEM LATEX is a copolymer dispersion based additive used to increase adherence and water impermeability in cement based mortars and plasters.

APPLICATION AREAS

- In repair mortars,
- In plaster mortars as an adherence additive in mortars prepared for the repair of damaged concrete surfaces, handles and plasters,
- Reinforced-concrete Silos,
- As an additive to increase the adherence and water impermeability of interior and exterior plasters of water tanks, pools, treatment plants,
- Preparation of spreading in screeds, coating mortars,
- On smooth and bright concrete surfaces and aerated concrete,
- As an additive in mortars prepared for the laying of natural stone, brick, tile plates, as a surface preparation before applying plaster and ceramics.

ADVANTAGES

- It creates a strong and permanent bond.
- It provides excellent adherence and elasticity.
- High resistance against chemical and mechanical attacks is obtained.
- It avoids sudden drying cracks.
- It provides water impermeability.
- Increases workability.

CONSUMPTION

Preparation of Sand in Fine Plaster and Screed (Quartz or River Sand):

Plaster Thickness	Thickness	Mixture Ratio		
2 mm	0 – 0,3 mm	% 33 0-0,2 mm + % 67 0,02-0,03 mm		
2 – 5 mm	0 – 1 mm	% 40 0–0,7 mm + % 60 0,70–1, mm		
5 – 15 mm	0 – 3 mm	% 50 0–1,0 mm + % 50 1–3 mm		
15 mm over	0 – 7 mm	% 60 0–3,0 mm + % 40 3–7 mm		

In Screed Applications:

1 m³ of washed river sand is mixed with least 350 kg of cement in appropriate granulation. The liquid mixture prepared by adding 110 liters of water to 4 kg of AR-CHEM LATEX is added onto the powder mixture prepared before, until a mortar with a consistency suitable for the primer is obtained. Screed Primer Application described above should be applied to the surface. Fresh concrete should be applied on it before allowing the primer layer to dry.

HYDROFLEX AR-CHEM LATEX

Cement Based
For Plasters and Screeds
Multi-Purpose Binder
Additive (Primer)

PACKAGE

20 kg plastic drum









effective and permanent waterproofing solutions















Polyurethane Injection Systems



HYDROFLEX PUR INJECT 01 is a low viscosity polyurethane injection resin that does not require solvent for floor stabilization. It is a material that is harmless to the environment and resistant to biological effects.

APPLICATION AREAS

- In places where waterproofing is required.
- Filling and repair works.
- Crack injections.
- Stopping water leakage in concrete structures exposed to movement and dilatations
- Tunnels, bridges and all structural elements.
- Stopping water leaks at the joints of tunnel segments and behind-segment curtain injection works.
- Pre-injection into sandy ground and cracked rocks.
- · Stabilization of sandy and gravelly soils

ADVANTAGES

- It is hydrophibic.
- It reacts in contact with water, expands and cures and turns into a non-porous, flexible and dense foam.
- Provides absolute water impermeability.
- It has high adhesion strength even in humid environments.
- Resistant to mild acids, alkalis, organic solutions, fungi, mold and micro-organisms.
- Reaction and expansion rate can be controlled.
- No harm to health in contact with drinking water.

PACKAGE

PUR INJECT 01A: 25 kg plastic drums PUR INJECT 01B: 1 kg plastic bottle

HYDROFLEX PUR INJECT 01

Non- Expanding Variable Catalys Polyurethane Injection





HYDROFLEX PUR INJECT 02 is a solvent-free, polyurethane injection mortar ideal for crack injection and water stains in concrete and masonry structures. Reaction with water forms a semi-rigid polyurethane foam.

APPLICATION AREAS

- Stopping water leaks in underground structures and filling cavities containing water
- Application of crack injection in concrete and masonry structures
- It can be used in a wide variety of structures such as tunnels and highways, HEPP and Dam projects, concrete pavements, underground galleries and foundations.

ADVANTAGES

- Resin and catalyst components can be mixed before injection and used as a one component.
- After injection, it reacts with water and the resulting carbon dioxide gas (CO2) allows the foam to expand and penetrate into the cracks.
- Polyurethane foam has a semi-rigid structure
- The accelerator or catalyst content is between 6 and 10 %, which can be easily adapted by changing the reaction rate.

PACKAGE

PUR INJECT 02A: 25 kg plastic drums PUR INJECT 02B: 2.5 kg plastic bottle

HYDROFLEX PUR INJECT 02

U2 Expai

Expanding
Fixed Catalyst
Polyurethane
Injection





Hydroflex Pur Inject 03 is a solvent-free, polyurethane injection grout designed for crack injection and water stain remediation in concrete and masonry structures. It reacts with water to form a semi-rigid polyurethane foam.

APPLICATION AREAS

- Sealing water leaks in underground structures and filling voids with water presence.
- Crack injection in concrete and masonry structures.
- Suitable for a wide range of projects such as tunnels, highways, hydroelectric and dam projects, concrete coatings, underground galleries, and foundations.

ADVANTAGES

- Resin and catalyst components can be mixed prior to injection, facilitating single-component usage.
- Upon injection, it reacts with water, generating carbon dioxide gas (CO2) which expands the foam, ensuring penetration into cracks.
- The resulting polyurethane foam possesses a semi-rigid structure.

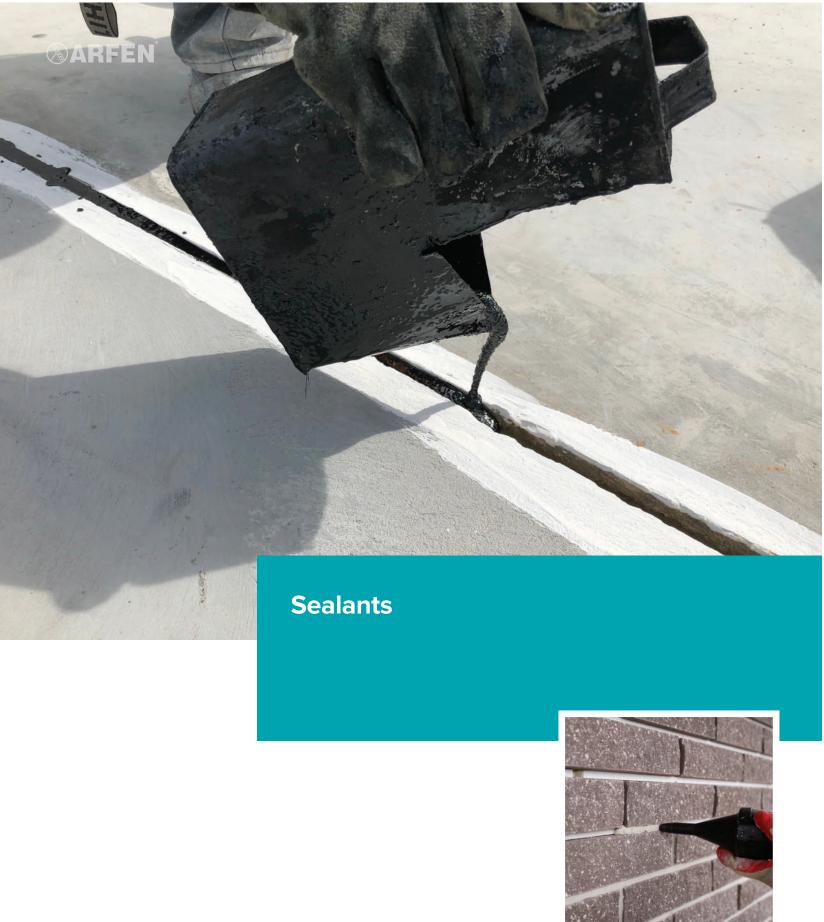
PACKAGE

PUR INJECT 03A: 25 kg plastic drum PUR INJECT 03B: 2,5 kg plastic bottle

HYDROFLEX PUR INJECT 03

Swelling, Variable Catalyst Polyurethane Injection





Polyurethane-Based Sealant **Hybrid Sealant** Polysulfide-Based Sealant



HYDROFLEX 25 SL is a self-leveling polyurethane sealant ideal for horizontal applications. Its flexibility allows it to absorb continuous movements of the structure caused by thermal changes without the problem of cracking.

APPLICATION AREAS

- Horizontal joints.
- Interior and exterior areas.
- Expansion joints between different building materials.
- Industrial floors.
- Garage pavements.
- Highway

ADVANTAGES

- Two-component formulation.
- Easy to mix.
- Rapid setting time.
- Self-leveling properties.
- Consistency for easy horizontal application.
- Possesses lasting elasticity.
- High adhesive strength.
- +/-25% movement capacity.
- Paintable.

PACKAGE

Metal Packaging: 6 kg + 3 kg options

CONSUMPTION

Linear Meter of Sealant Per Kilogram

m	ım	Width				
		6	12	18	25	32
Depth	6	1350	675	450	324	253
Берит	12	2700	1350	900	648	506

HYDROFLEX **25 SL**

Two Component Polyurethane Based Sealant





HYDROFLEX 35 PU is a single-component, moisture-curing polyurethane-based sealing material. It exhibits excellent adhesion to cement-based construction materials, brick, ceramic, glass, wood, galvanized and painted steel, as well as various plastic surfaces.

APPLICATION AREAS

- Filling joints between building components in the construction sector.
- Installation of roof tiles.
- Mounting PVC window frames.
- Filling gaps between wood doors/windows and the surrounding walls.
- Joints of prefabricated building elements.
- Providing waterproofing at rainwater collection pipe joints and rain gutters on roofs.
- Sealing gaps in buildings where working joints are left open between precast concrete blocks.

ADVANTAGES

- Offers lasting elasticity.
- Non-drip, thixotropic properties.
- Surface adhesion-free, resistant to dirt accumulation.
- No shrinkage, no pulling.
- Enhanced storage stability.
- Easily applicable and correctable with a gun dispenser.
- Paintable.
- · Bubble-free curing.
- Capable of accommodating up to 25% movement.
- Suitable for use in drinking water systems under BS 6920.
- Compliant with VOC (Volatile Organic Compounds) limits set by SCAQMD Rule 1168 for LEED credit EQc4.1 "Low emitting products."
- Meets French A+ VOC emission standards.



35 PU

Polyurethane-Based Single-Component

Construction Sealant

General Purpose

PACKAGE

Product	Volume	Pcs Per Box
Grey (Sausage)	600 ml	12
White (Sausage)	600 ml	12
Black (Sausage)	600 ml	12

CONSUMPTION

Joint Width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	10 mm	12 mm	15 mm	15 mm
Joint Length/600 ml	5 mt	3 mt	2 mt	1,3 mt	1,1 mt



HYDROFLEX 40 FC is a single-component, moisture-curing polyurethane based sealant. It demonstrates excellent adhesion to iron, aluminum, stainless steel, lead, copper, ceramic, glass, wood, and various plastic surfaces.

APPLICATION AREAS

- Filling joints between building components in the construction sector.
- Automotive industry, manufacturing of cars, caravans, etc.
- Manufacturing and installation of ventilation ducts and air conditioning systems.
- Providing waterproofing at rainwater collection pipe joints and rain gutters on roofs.
- Insulation of metal sheet joints.
- Isolation of gaps permeable to water, gas, air, and dust.

ADVANTAGES

- Rapid curing.
- Strong adhesion.
- Permanent flexibility.
- Non-drip, thixotropic properties.
- Surface adhesion-free, resistant to dirt accumulation.
- No volume loss.
- Easily applicable and correctable with a gun dispenser.
- Paintable.
- Complies with CE requirements for façade applications according to EN 15651.
- Meets VOC (Volatile Organic Compounds) limits under LEED credit EQc4.1 following SCAQMD Rule 1168 "Low-emitting products."
- Meets French VOC A+ emission requirements.

HYDROFLEX 40 FC

Rapid-Curing
Single-Component
Polyurethane-Based.
General Purpose
Construction and
Automotive Sealant



PACKAGE

Product	Volume	Pcs Per Box
Grey (Sausage)	600 ml	12
White (Sausage)	600 ml	12
Black (Sausage)	600 ml	12

CONSUMPTION

Joint Width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	10 mm	12 mm	15 mm	15 mm
Joint Length/600 ml	5 mt	3 mt	2 mt	1,3 mt	1,1 mt



AST is a polymer-based adhesive and joint-filling sealant that offers exceptional versatility, high quality, and resistance to all weather conditions. Combining the characteristics of polyurethane and silicone, it serves as an optimal choice for various surfaces such as Aluminum, Granite, Ceramic, Marble, Porcelain, Metal, PVC, Glass, Wood, and Rough surfaces (concrete, brick, limestone, etc.)

APPLICATION AREAS

- Filling joints, low-movement connection joints.
- Various applications including bodywork, automobile, container, and caravan manufacturing.
- Door and window installation.
- General insulation and sealing applications.
- Suitable for ventilation ducts exposed to high vibration.
- Can be used for providing waterproofing at rainwater collection pipe joints and rain gutters on roofs.

ADVANTAGES

- High thixotropic property: Suitable for horizontal and vertical applications.
- Solvent-free, silicone-free, and isocyanate-free.
- Demonstrates strong adhesion to many surfaces.
- Adheres to various surfaces without requiring primer.
- Does not form bubbles, even on damp or wet surfaces.
- High UV resistance.
- Can be painted over with water-based paints.
- Does not experience volume loss.
- No surface tackiness.

PACKAGE

Product	Volume	Pcs Per Box
Grey/Black/White (Sausage)	600 ml	12

HYDROFLEX 40 MS GENERAL PURPOSE HYBRID SEALANT & ADHESIVE

CONSUMPTION

Joint Width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint Depth	5mm	8 mm	10 mm	12 mm	15 mm
Joint Length / 600 ml	12 mt	5 mt	3 mt	2 mt	1,3 mt

HYDROFLEX 40 MS

UV-Resistant
High-Strength
General Purpose
Hybrid Polymer
Based Sealant



It is a polysulfide-based, two-component, highly elastic, non-flowing joint filler. It can be applied in joints between 40 mm and 100 mm wide.

APPLICATION AREAS

- Suitable for vertical applications.
- Non-slumping and non-dripping consistency.
- Applicable in building expansions, foundation and wall joints.
- Ideal for joints in fuel stations, ports, and airport pavements.
- Can be used for prefab elements, industrial floors, parking lots, and garage joints.

ADVANTAGES

- Maintains a paste-like consistency, non-slumping.
- Exhibits elasticity.
- Withstands vehicular traffic.
- Possesses high mechanical strength, UV resistance, and abrasion resistance.
- Resistant to water, salt solutions, gasoline, jet fuel, diesel, mineral oil after curing.
- Suitable for use in fuel stations.
- Resistant to plant roots.

PACKAGE

3,5 kg Set

CONSUMPTION

How many meters of joint can be filled with 1 kg of PS JOINT 01?

Joint Width (mm)	10	20	30	40	50
Joint Depth (mm)					
10	6,25 m	3,13 m			
15			1,39 m		
20				0,78 m	
25					0,50 m

PS JOINT

Polysulfide Based Dual-Component Fully Elastic Joint Sealant (Vertical Joints)





It is a polysulfide based, two component, highly elastic, flowable joint sealant. It can be applied in joints between 40 mm and 100 mm wide.

APPLICATION AREAS

- Suitable for horizontal applications.
- Applicable in building expansions.
- Ideal for joints in fuel stations, ports, and airport pavements.
- Can be used for prefab elements, industrial floors, parking lots, and garage joints.

ADVANTAGES

- Its flowable nature allows for self-leveling.
- Exhibits elasticity.
- Withstands vehicular traffic.
- Possesses high mechanical strength, UV resistance, and abrasion resistance.
- Resistant to water, salt solutions, gasoline, jet fuel, diesel, mineral oil after curing.
- Suitable for use in fuel stations.
- Resistant to plant roots.

PACKAGE

Toplam 4 kg set.

CONSUMPTION

How many meters of joint can be filled with 1 kg of PS JOINT 02?

Joint Width (mm)	10	20	30	40	50
Joint Depth (mm)					
10	6,90 m	3,45 m			
15			1,53 m		
20				0,86 m	
25					0,55 m

HYDROFLEX PS JOINT 02

Polysulfide and Tar Based
Two Component
Fully Elastic
Joint Sealant
(Horizontal Joints







It is a one-component, resin-solvent based high adherence primer. It is used as a primer before polysulfide mastic applications on absorbent and non-absorbent surfaces.

APPLICATION AREAS

- It is used as a primer before polysulfide sealant applications on absorbent and non-absorbent surfaces.
- Particularly applied in areas where polysulfide sealant is used, especially to enhance the bonding between concrete and the sealant.

FEATURES

- Applied to concrete surfaces with a brush before sealant application.
- Application of sealant can commence approximately 30 minutes after primer application.

PACKAGE

1 It plastic container

CONSUMPTION

 $0,150 - 0,250 \text{ kg/m}^2$

HYDROFLEX PS PRIMER

Resin Solvent Based Primer Suitable for Polysulfide Sealant





Type A Waterstop Tapes

Type AA Waterstop Tapes

Type D Waterstop Tapes

Type DA Waterstop Tapes

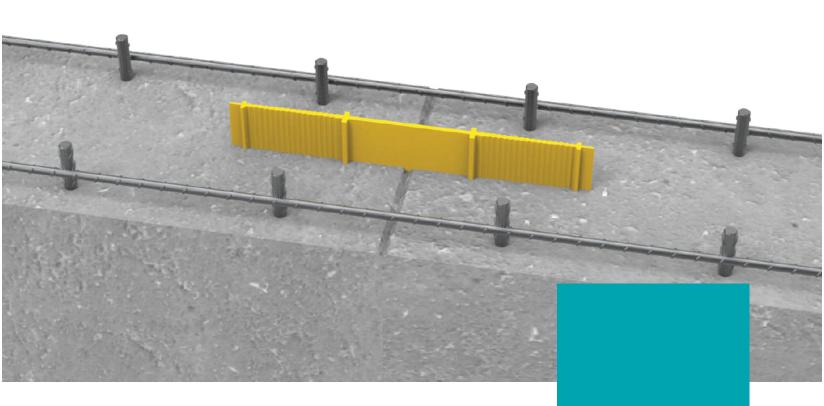
Type FA Waterstop Tapes

Type AK Waterstop Tapes

Type B Waterstop Tapes

Type I Waterstop Tapes

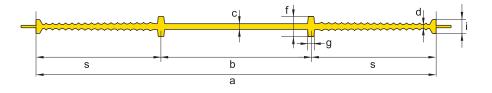




Type A waterstop tapes are placed within concrete structural elements for usage in non-expansive, partially contracting, and fully contracting joints. These tapes are used in radial-radial, radial-curtain, and curtain-curtain joints. They are produced in three different widths (240 mm, 320 mm, 500 mm) and are labeled as A240, A320, and A500.

APPLICATION AREAS

- Dams.
- Irrigation channels.
- Water reservoirs.
- Swimming pools.
- Metro stations.
- Retaining walls.
- Raft foundations.
- Curtain walls and their joint locations.
- Reinforced concrete structures situated below groundwater levels.



Type A Waterstop Tape Seal, Nominal Dimensions (mm)

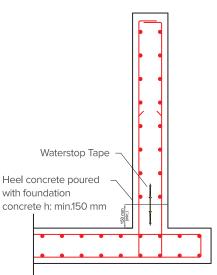
	Width		Thic	kness	Profile				
а	b	S	c d ^a		f	g	i		
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum		
240	80	62,5	3,5	2,5	15				
320	100	75	4,5	3	≥3 c	≥c	11		
500	150	100	6	3,5	18 ≥3 c	10	≥d+6		

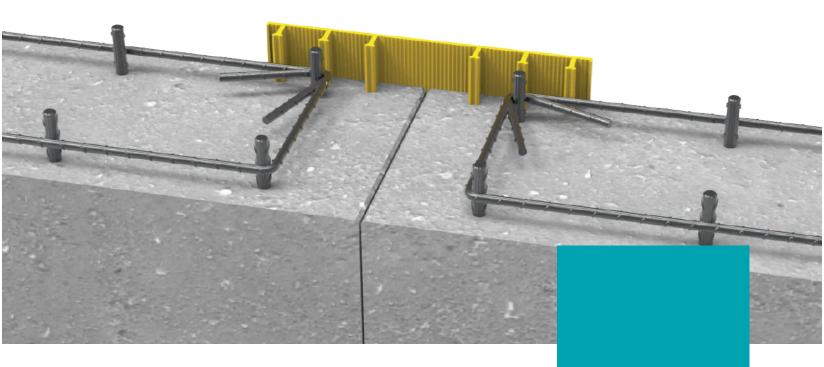
Taken from TS 3078-1 Table 2, page 8.

HYDROFLEX TYPE A WATERSTOP TAPES

High Sealing Performance



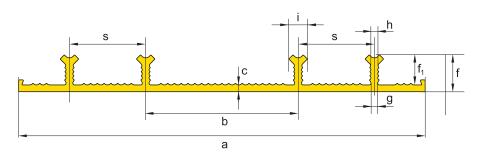




It is a type of waterstop tape with vertical dovetail profiles and nails designed to prevent the tape from being pulled out of the concrete and to enhance water resistance. It is used in joints without expansion gaps where the base is flat and there is no midsection expansion gap. This tape is placed on the outer surface of the concrete. It is used in radial-radial and curtain-curtain joints in partial and full contraction joints. It is available in three different widths (240 mm, 320 mm, 500 mm).

APPLICATION AREAS

- Dams
- Irrigation channels
- Water reservoirs
- Swimming pools
- Metro stations
- Retaining walls
- Raft foundations
- Curtain walls and their joint locations
- Reinforced concrete structures situated below groundwater levels.



TSE

HYDROFLEX

WATERSTOP

Professional Solution for

Partial Contraction and

Full Contraction Joints

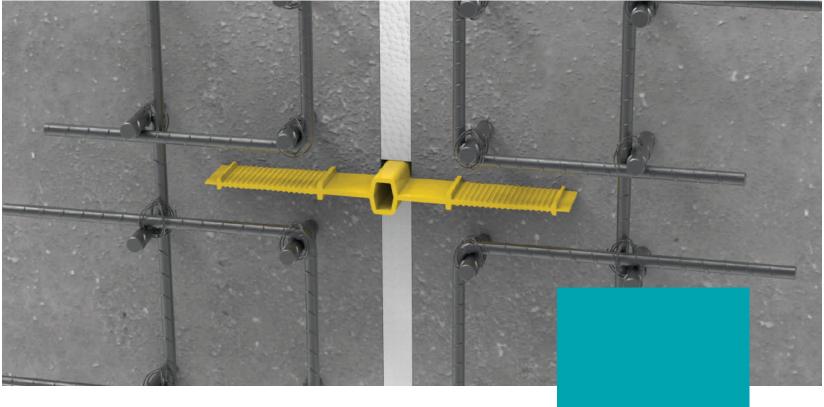
TYPE AA

TAPES

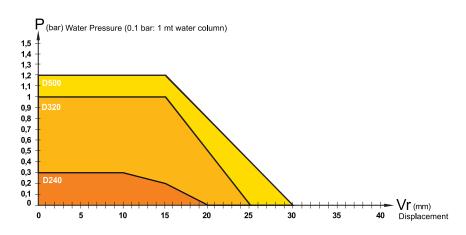
Type AA Waterstop Tape Seal, Nominal Dimensions (mm)

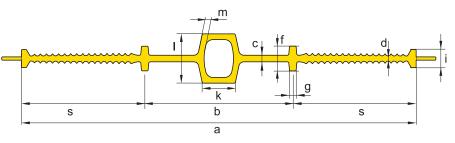
Width	Thickness		Profile									
а	b	С	N	е	f	f ₁ ^a	g	h	i			
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum			
240	80		4		20	16	4		11			
320	100	4	6	45	25	21	≥c	4	≥h+6			
500	150		8		25	21	≥0,2f					

Taken from TS 3078-1 Table 4, page 9.



Expansion type waterstop tape is embedded within concrete and is used in expansion joints, particularly in radial-radial and curtain-curtain joints, positioned near the center of the section. It is available in three different widths (240 mm, 320 mm, 500 mm) and designated as D240, D320, and D500.





Type D Waterstop Tape Seal, Nominal Dimensions (mm)

Width			Thickness		Pro	file	Expansion Gap			
а	b	s	С	d a	f	g	i	k	I	m ^b
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
240	80	62,5	4	3	15				30	3,5
320	100	75	5	3,5	≥3 c	≥c	11	20	35	4
500	150	100	6	4,5	18 ≥3 c		≥d+6	20	45	4,5

Taken from TS 3078-1 Table 1, page 8.

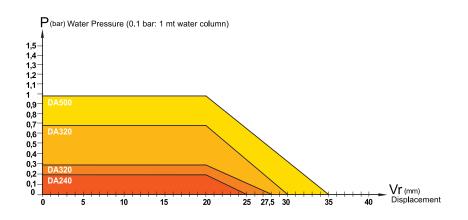
HYDROFLEX TYPE D WATERSTOP TAPES

PVC Based Excellent Insulation





DA type waterstop tapes are designed to be placed on the outer surface of concrete, particularly in joints with expansion gaps, where the base is flat and there is an expansion gap in the middle. These tapes have nails in vertical orientation and striped surfaces on both sides of the tape to extend the path of water and enhance water resistance. They are available in three different widths (240 mm, 320 mm, 500 mm) and are designated as DA240, DA320, and DA500.



s h h c l f₁ f

HYDROFLEX TYPE DA WATERSTOP TAPES

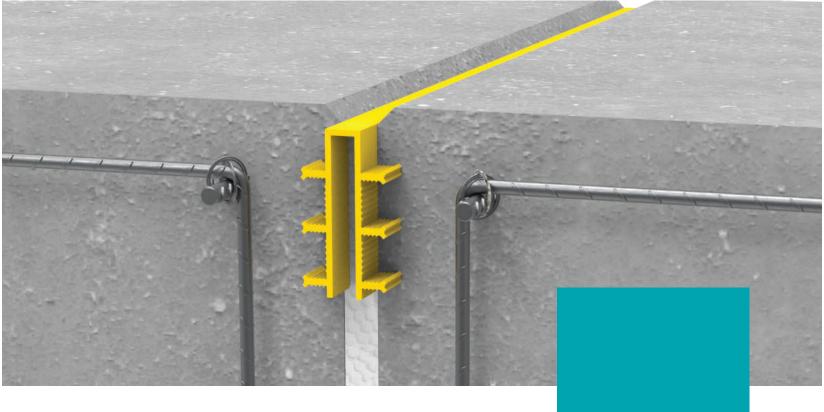
Professional Solution for Partial Contraction and Full Contraction Joints



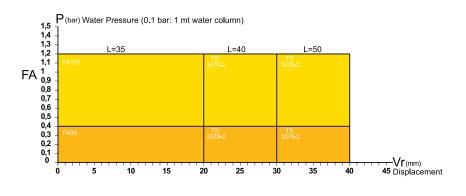
Type DA Waterstop Tape Seal, Nominal Dimensions (mm)

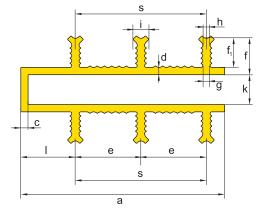
w	idth	Thickness		Profile						Expansion Gap		
а	b	С	N	е	f	f ₁ ^a	g	h	i	k	I	m
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
240	90		4		20	16	4		4.4			
320	100	4	6	45	25	21	≥c	4	11 ≥h+6	20	20	4
500	120		8		25	21	≥0,2f		_1110			

Taken from TS 3078-1 Table 3, page 8.



U type PVC waterstop tapes are used when the cross-section is in a U shape and when the installation of iron reinforcement on the outer side of the concrete structure is not suitable for other types. These tapes are utilized in situations where other types are not suitable for mounting due to the presence of U-shaped reinforcement. They exhibit a somewhat lower hydrostatic pressure resistance compared to other types.





HYDROFLEX TYPE FA WATERSTOP TAPES

Type U PVC Waterstop Tape



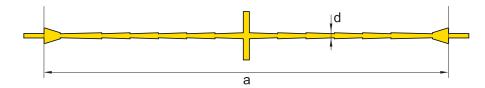
Type FA Waterstop Tape Seal, Nominal Dimensions (mm)

Toplam Genişlik	Kalı	ınlık		Profil					Genleşme Boşluğu		
а	С	d	N	е	f	f ₁	g	h	i	k	I
Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
50			2	-		20	5				
90	5	5	4	45	25	f-c	≥d	4	11 i≥h+6	20	35
130			6	45			≥0,2f				

Taken from TS 3078-1 Table 5, page 9.

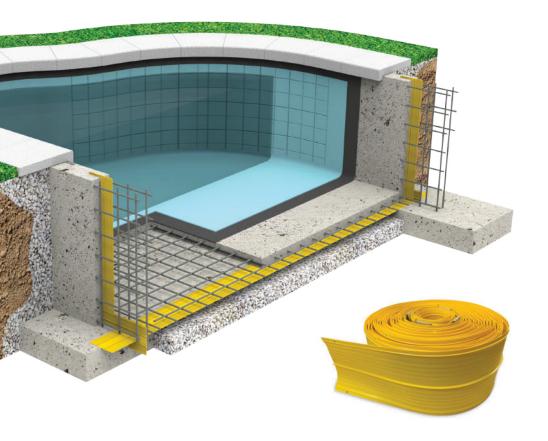


Type AK waterstop tapes are used in both full and partial contraction joints and are preferred in structures with low water pressure due to their economic nature. They are chosen for their cost-effectiveness in buildings with low water pressure. Because their thickness is less compared to other types, they need to be securely attached to prevent folding within the concrete. They are identified as AK 20/2, AK 20/3, and are supplied in rolls of 20 meters.

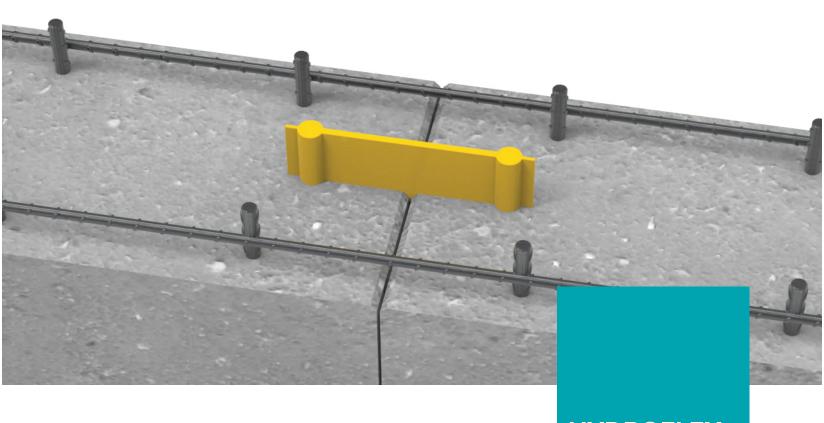


HYDROFLEX TYPE AK WATERSTOP TAPES

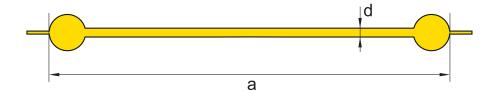
Low Water Pressure Resistant, Economical







Type B waterstop tapes are used in both full and partial contraction joints and are suitable for both low and high water pressure conditions. They are referred to as B20/5 and B25/5. These tapes are produced in rolls with a length of 20 meters.



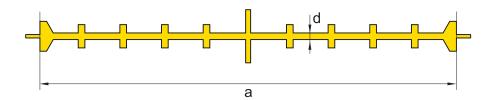
HYDROFLEX TYPE B WATERSTOP TAPES

High Water Pressure Resistant



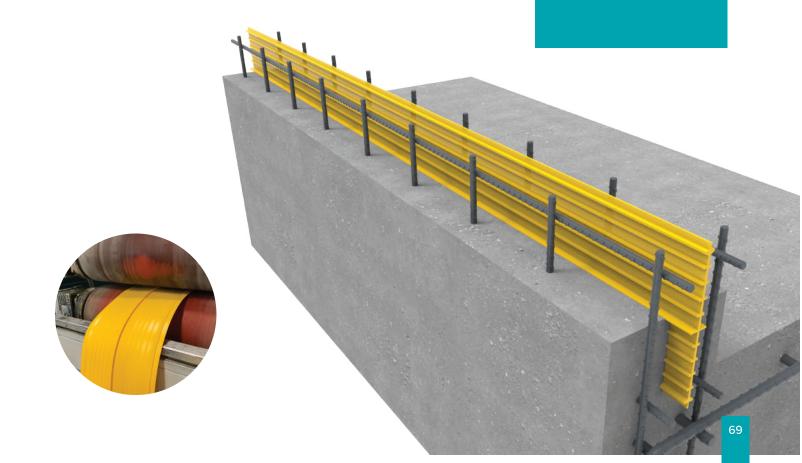


Type I waterstop tapes are used in both full and partial contraction joints and are suitable for structures exposed to both low and high water pressure. They are utilized in joints such as radial-radial, radial-curtain, and curtain curtain intersections, with the tape placed in the middle of the section. These tapes are manufactured in various widths and have lengths of 20 meters. They are designated as I 25/5 and I 20/4.



HYDROFLEX TYPE I WATERSTOP TAPES

Resistant to Low and High Water Pressure



Types of PVC Waterstop Tapes

ТҮРЕ	TECHNICAL DRAWING	WIDTH (cm)	THICKNESS (mm)	DESCRIPTION
A 20/5		20	5	20 CM WIDTH 5 MM THICKNESS "TYPE A" PVC WATERSTOP
I 20/4		20	4	20 CM WIDTH 4 MM THICKNESS "TYPE I" PVC WATERSTOP
I 20/5	} ; ; ; ; { ; ; ; ; 4	20	5	20 CM WIDTH 5 MM THICKNESS "TYPE I" PVC WATERSTOP
I 25/5		25	5	25 CM WIDTH 5 MM THICKNESS "TYPE I" PVC WATERSTOP
B 25/5		25	5	25 CM WIDTH 5 MM THICKNESS "TYPE B" PVC WATERSTOP
AK 20/2	→	20	2,5	20 CM WIDTH 2,5 MM THICKNESS "TYPE AK" ECONOMIC PVC WATERSTOP
AK 20/3		20	3	20 CM WIDTH 3 MM THICKNESS "TYPE AK" PVC WATERSTOP
A 24/4		24	4	24 CM WIDTH 4 MM THICKNESS "TYPE A" PVC WATERSTOP
D 24/4		24	4	24 CM WIDTH 4 MM THICKNESS "TYPE D" PVC WATERSTOP
DA 24/4		24	4	24 CM WIDTH 4 MM THICKNESS "TYPE DA" PVC WATERSTOP
DA 32/4		32	4	32 CM WIDTH 4 MM THICKNESS "TYPE DA" PVC WATERSTOP
AA 24/4		24	4	24 CM WIDTH 4 MM THICKNESS "TYPE AA" PVC WATERSTOP
FA 90/5		9	5	9 CM WIDTH 5 MM THICKNESS "TYPE FA" PVC WATERSTOP

Images from Our Laboratory

Tensile, Fracture Tests, Aging Tests, Density, and Hardness Measurements are consistently conducted in our laboratory.









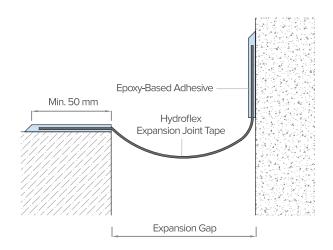


Hydroflex TPE Expansion Joint Tapes



Hydroflex Expansion Joint Tapes are used to provide water insulation in existing or potential joints after concrete casting. HYDROFLEX is a highly elastic expansion joint tape used for the insulation of expansion gaps, thermal expansion joints, and cracks. It is produced in widths of 150 mm - 200 mm - 250 mm - 300 mm - 400 mm, with thicknesses of 1 mm, 1.50 mm, and 2 mm, available in both perforated and non-perforated forms.

Min. 50 mm Hydroflex Expansion Joint Tape Expansion Gap



PRODUCT CODE	WIDTH	THICKNESS	LENGTH
HYDROFLEX 150	150	1 mm & 1,5 mm & 2 mm	25 mt / roll
HYDROFLEX 200	200	1 mm & 1,5 mm & 2 mm	25 mt / roll
HYDROFLEX 250	250	1 mm & 1,5 mm & 2 mm	25 mt / roll
HYDROFLEX 300	300	1 mm & 1,5 mm & 2 mm	25 mt / ro ll
HYDROFLEX 400	400	1 mm & 1,5 mm & 2 mm	25 mt / roll

HYDROFLEX TPE EXPANSION JOINT TAPES

High Adhesion Strength Easy Application





FEATURES AND BENEFITS

- Easy application with epoxy adhesive
- High elasticity, up to 600%
- High adhesive strength
- Resistance to plant roots
- Resilience to ozone, diesel, and oil
- High performance across a wide temperature range of -40 °C to +90 °C
- Capable of bonding with heat

USAGE AREAS

- In all building expansion joints, both horizontally and vertically
- In foundations and underground parts of walls
- Used in structures such as wastewater treatment plants, drinking water facilities, water reservoirs, and pools
- In tunnels and culverts
- Applied in cold joint waterproofing of column-to-wall and wall-to-wall joints

HYDROFLEX TECHNICAL SPECIFICATIONS

MATERIAL CHEMICAL COMPOSITION	TPE (Thermoplastic Elastomer)
COLOUR	Grey
HARDNESS LEVEL	80
SERVICE TEMPERATURE RANGE	-40 °C / +90 °C
THERMAL WELDING TEMPERATURE	270 °C
ELONGATION AT BREAK	%600
TEAR STRENGTH	> 600N/cm
WATER PRESSURE RESISTANT VALUE	> 8 Bar
TENSILE STRENGTH	> 6 Mpa
UV RESISTANCE VALUE	> 7500 h
BITUMEN RESISTANCE	Good
SULFURIC ACID RESISTANCE	Good
ALCOHOL RESISTANCE	Good
DETERGENT RESISTANCE	Good

HYDROFLEX 21 EPOXY ADHESIVE

It is an epoxy-based, two-component, repair, anchoring and bonding mortar.

ADHESIVE USAGE AREAS

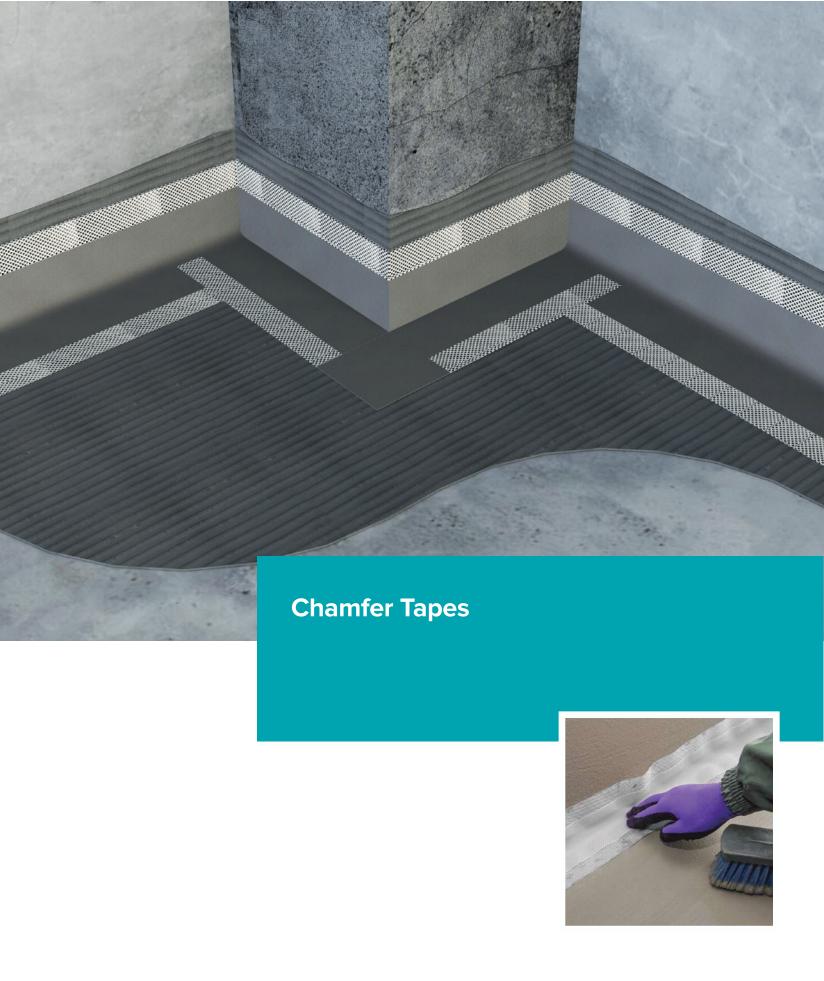
It is used for bonding dilatation tape.

ADHESIVE FEATURES AND ADVANTAGES

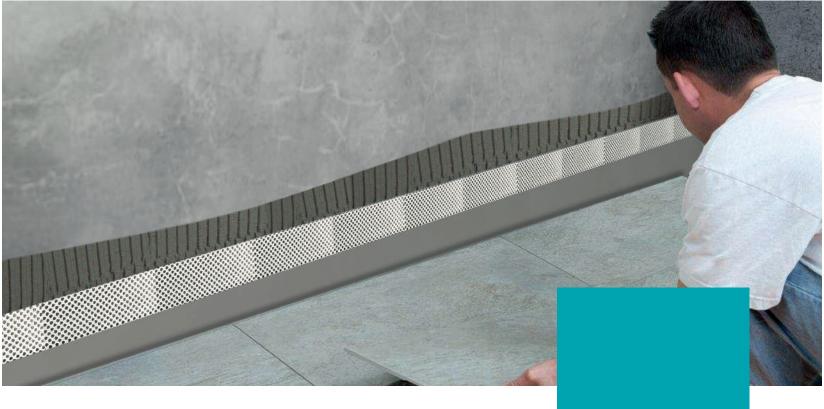
It has high adhesion strength and is resistant to chemicals. It does not contain solvents. It is applied in floor, wall, curtain and terrace expansions. Water and gas proof. Can be applied to damp surfaces. It has a soft consistency and is easy to apply.







Hydroflex Chamfer Tapes



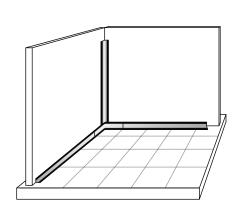
It is used to prevent cracks in inner and outer corner chamfers and to ensure continuity in sliding-based insulation applications in wet areas and terraces. It is shipped in rolls of 50 meters. Internal and external corners are available.

- The purpose of waterproofing in wet areas, floors and It is to stop the moisture that may occur on the walls and enable it to evaporate.
- Hydroflex Chamfer Tape is used in order to prevent cracks in the inner corners in case of using liquid waterproofing materials in wet areas.
- Liquid waterproof materials, which are normally flexible on flat surfaces, cannot tolerate discontinuity in case of cracks in the inner corners. Generally, these are the points where water seepage happens most commonly.
- These sensitive areas should be isolated with special polyester tapes.
- After the Hydroflex chamfer tape is placed on the insulation adhesive, the top layer of adhesive should be applied again with in a 10 cm area.
- In order to provide a proper isolation, the continuity of the applied tape should be ensured. In addition, physical damage (tearing, impact, etc.) should be avoided while ceramic or other finishing materials are placed in place.

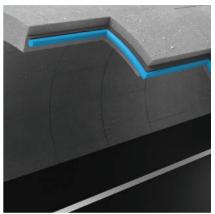
HYDROFLEX CHAMFER TAPES

Felt and Mesh Chamfer Tapes

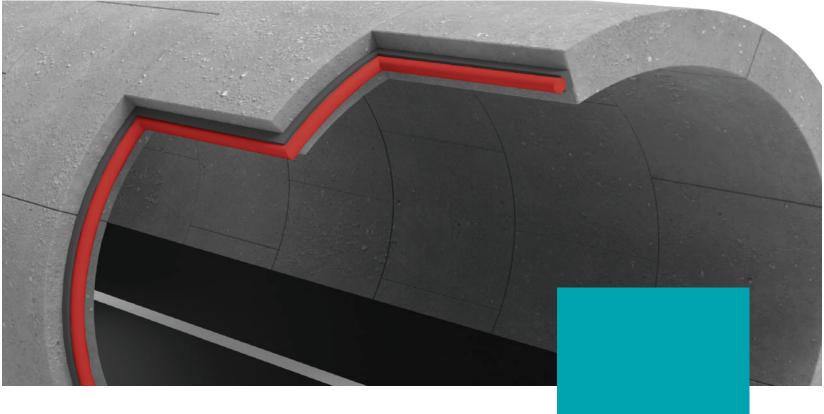




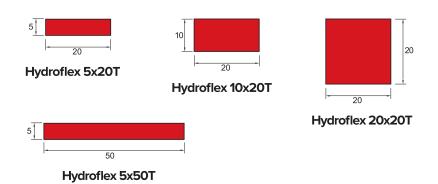




TPE Based Water Swellable Tapes
Sodium Bentonite Based Water Swelling Tapes



TPE-based water-swellable tape is a type of tape that can expand even in 10% salt water, with an expansion rate of 350% to 850% elongation, and is resistant to many chemicals, does not disintegrate during swelling. The dimensions are 20x5, 20x10, 20x20 and 50x5 and are produced in rolls of 20 meters.



HYDROFLEX TPE BASED WATER SWELLABLE TAPE

High Elongation Performance
Durable Construction

USAGE AREAS

- indoor and outdoor places
- In pools, water tanks, treatment plants
- At foundation curtain joints, curtain curtain joints
- In Tunnel Segments
- They are used in partial contraction and full contraction joints in all kinds of reinforced concrete and concrete structures.

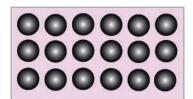




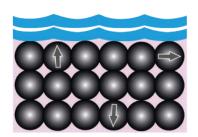




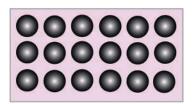
HOW DOES IT WORK?



A special additive interacting with water is added to the TPE mixture during production.



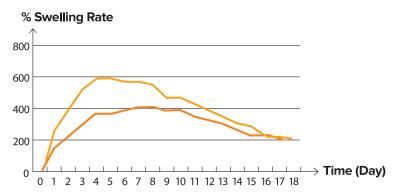
TPE expands uniformly and closes the gaps when the product stays in water or comes into contact with water.



When the water source is withdrawn, the TPE mixture shrinks back to its original size and returns to its original size.

HYDROFLEX TPE BASED WATER SWELLABLE TAPE

Easy and Fast Application Advantage



Tested with ionized water at 23°C





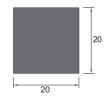
It is a sodium bentonite and butyl rubber based waterstop tape that swells when in contact with water, filling the cracks, pores and capillary spaces in the concrete and makes the concrete waterproof.







Hydroflex 10x20B



Hydroflex 20x20B

FEATURES AND ADVANTAGES

- It is easy to work with and fast installation can be done.
- Can even easily be applied in excessive reinforcement areas.
- Joining the gap consists of bringing them side by side and pressing them.
- Since it swells in a controlled manner, it does not swell suddenly during concrete pouring.
- It can be used safely as it does not mix with drinking water.
- It is used in pool, foundation, tunnel, subway, retaining wall, garage, curtain concrete, water tank, sewerage, water treatment plant constructions, underground pipe and cable passages, concrete joints, dam, highway, junctions of old and new concrete.

HYDROFLEX SODIUM BENTONITE BASED WATER SWELLING TAPE

Easy Application
High performance











Textile Metmbrane
Chamfer Tapes
Water Pipe Flexi Collar
Joinery Insulation Tapes



3-ply waterproof membrane protects floors and walls under thin set tile installations from substrate cracks and moisture migration.

APPLICATION

Sealing membrane to be applied with tiles and natural stones for perfect waterproofing. Suitable for medium loads of non pressurized water indoors (e.g. domestic bathrooms).



HYDROFLEX WATERTEX 1000

Polypropylene Felt & Polyethylene Textile Membrane

MATERIAL COMPOSITION

Top substrate: Polypropylene non-woven -

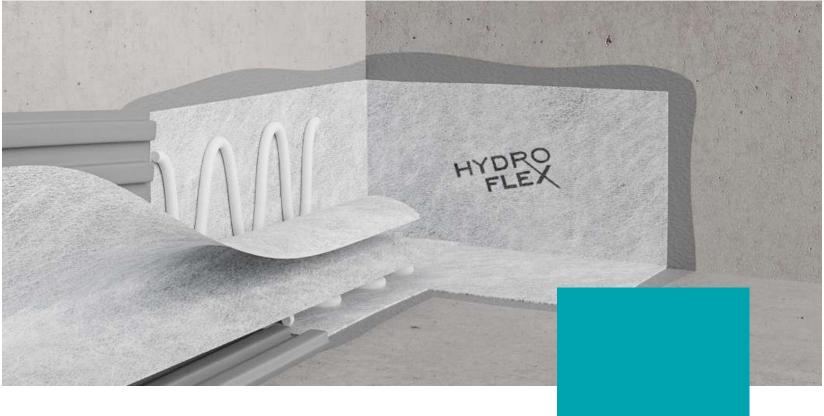
Membrane: Modified Low Density Polyethylen -

Bottom substrate: Polypropylene non-woven -

SYSTEM COMPONENTS

Inside Corner Outside Corner Floor Collar Wall Collar

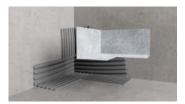




100 - 120 mm wide polypropylene felt & polyethylene chamfer tapes

APPLICATION

Joint sealing tape to be applied with tiles or natural stones for flexible waterproofing of expansion joints. Suitable for medium to high loads of non-pressurized water indoors (also if exposed additionally to chemicals) as well as medium to high loads of non-pressurized water or for water under constant positive pressure both for indoor and outdoor application (e.g. domestic bathrooms, industrial kitchen, shower rooms and swimming pools — both domestic and public and balconies and terraces not situated above useable rooms).



Prepare tile adhesive according to manufacturer's instructions and apply evenly in the corner area. Place sealing corner, excessive adhesive is pushed out to the sides with a spatula and spread.



Cut the joint sealing tape to the appropriate wall size before processing. It is essential to plan an overlap of 50 mm to the sealing corner. For a safe overlap of the sealing corner and joint sealing tape apply a suitable liquid sealing adhesive.



Apply tile adhesive evenly in the wall / floor connection. Place the joint sealing tape and push it into the correct position with a spatula. Push out excessive adhesives on the sides and spread it, done.

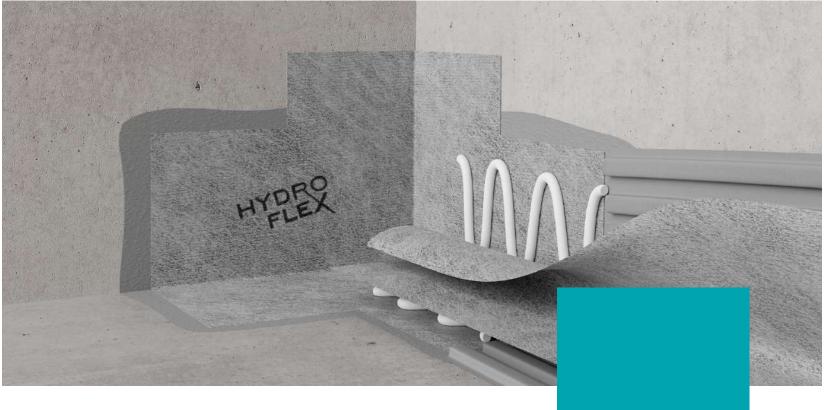


The remaining tapes are processed according to this scheme. Afterwards you can continue with the surface sealing.

HYDROFLEX WATERTEX 100-120

Polypropylene Felt & Polyethylene Chamfer Tape





Special inside corner made from non-woven and a flexible coating.

APPLICATION

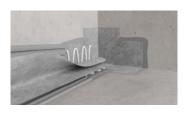
Sealing for construction corners in addition with waterproofing tapes.



Prepare tile adhesive according to manufacturer's instructions and apply evenly in the corner area. Place sealing corner, excessive adhesive is pushed out to the sides with a spatula and spread.



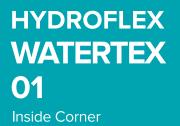
Cut the joint sealing tape to the appropriate wall size before processing. It is essential to plan an overlap of 50 mm to the sealing corner. For a safe overlap of the sealing corner and joint sealing tape apply a suitable liquid sealing adhesive.

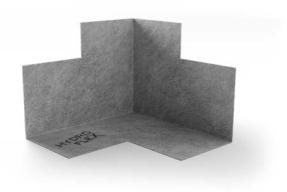


Apply tile adhesive evenly in the wall / floor connection. Place the joint sealing tape and push it into the correct position with a spatula. Push out excessive adhesives on the sides and spread it, done.



The remaining tapes are processed according to this scheme. Afterwards you can continue with the surface sealing.







Special outside corner made from non-woven and a flexible coating.

APPLICATION

Sealing for construction corners in addition with waterproofing tapes.



Prepare tile adhesive according to manufacturer's instructions and apply evenly in the corner area. Place sealing corner, excessive adhesive is pushed out to the sides with a spatula and spread.



Cut the joint sealing tape to the appropriate wall size before processing. It is essential to plan an overlap of 50 mm to the sealing corner. For a safe overlap of the sealing corner and joint sealing tape apply a suitable liquid sealing adhesive.



Apply tile adhesive evenly in the wall / floor connection. Place the joint sealing tape and push it into the correct position with a spatula. Push out excessive adhesives on the sides and spread it, done.



The remaining tapes are processed according to this scheme. Afterwards you can continue with the surface sealing.







Special waterpipe flexicollar made from thin non-woven and a flexible membrane, with a special flexible area in the center for easier pulling over pipe plugs.

APPLICATION

System component for safe waterproofing of water pipes with different dimensions.



A primer is recommended for optimal substrate preparation to enhance adhesion. Apply flexible adhesive around the pipes and choose a suitable flexicollar according to the pipe diameter.



Pull the flexicollar over the pipe. Attention, don't pull back the flexicollar. There must be a bulge form outwards (see illustration). The flexicollar must not be damaged.



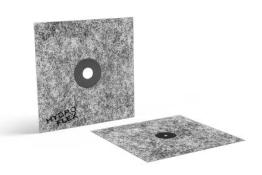
Apply liquid sealing, but leave the expansion zone free. The flexicollar should be generously covered with liquid sealing all around the edges.



Now apply the sealing membrane with a tile adhesive. Overlapping areas are applied with a liquid sealing adhesive. Excessive sealing adhesive is pushed out to the sides and spread.



Water Pipe Flexi Collar





Hydroflex DYB insulation tapes are self-adhesive, non-woven products designed to prevent vapor diffusion. Because of its self-adhesive feature, it provides ease of installation on window edges and corners to prevent vapor permeability. It is suitable for plastering.

USAGE AREAS

To prevent vapor diffusion indoors and outdoors (gaps between window, door and building) It is suitable for use on metal, PVC and wooden surfaces.

USAGE

- Make a trial/test in accordance with your contract and obligations.
- Pay attention to surface cleaning.
- Hydroflex DYB Insulation Tapes are attached to the window frame with a self-adhesive strip. It is done before or after installing the window, depending on the design.
- Internally adhesive Hydroflex DYB Insulation Tapes are firmly fixed to the construction structure by hand or rubber roller in order to be firmly fixed to the surface.

PRODUCT PROPERTIES

- Self-adhesive for wall frames
- Humidity variable applicable inside and outside
- Diffusion-proof
- Water vapor permeability
- Multi directional
- UV Resistant
- Suitable for plastering.
- Can be applied down to -10 °C

HYDROFLEX DYB SERIES

Joinery Insulation
Tapes



OUR OTHER PRODUCT GROUPS









Hydroflex Butyl Tapes



Hydroflex BB Series Butyl tape is a kind of adhesive tape with strong adhesive and excellent sealing effect. It has excellent adhesion to all kinds of material surfaces (color steel plate, steel, waterproof coiled material, cement, wood, PC, PE, PVC, EPDM, CPE materials). Thus, it is also referred to as self adhesive type sealing tape.

TYPICAL USES

Butyl Tape is designed to seal and prevent the entry of dust, air and moisture and assure a weather tight seal in metal building details.

- Metal rib and end joints
- Standing seam roof end laps
- Sealing roof curbs roof jacks and skylights
- Sealing polyethylene sheeting
- Sealing air conditioning equipment
- Window and door flanges

ADVANTAGES

- Excellent for sealing
- Non-staining
- Permanently flexible
- Resistant to ultraviolet and infrared radiations, precipitation, atmospheric hydrocarbon contamination and extremes in temperature

SPECIFICATION

Colors	Grey
Density (gr/cm ³)	1,5± 0,2
Dimensions: Width (mm) Thickness (mm)	20-30-50-100-200 1 Other sizes are available on request.
Roll lengths (meters)	10
Life Expectancy	In excess of 25 years
U.V. Resistance	Excellent
Service Temp. Range	-40°C to +93°C
Application Temp. Range	-20°C to +49°C
Shelf Life	36 months in ambient conditions (+10° C and +25°C)
Joint Movement Range	Up to 15%



Butyl Tapes





Hydroflex BBA Series Aluminum butyl tape is self adhesive sealing tape made of a butyl rubber compound, protected by a reinforced aluminium metal film. It is ideal for covering seals of construction and connecting joints in buildings and industry and for sealing both internal and external joints and overlaps (metalwork, container construction, conservatories, air-conditioning and ventilation construction). In addition, when used in the construction of windows and facades, Aluminum butyl tape is ideal for sealing connections and joints (where a gas and diffusionproof seal is necessary).

TYPICAL USES

- Excellent waterproofing, airtight tape for building & construction applications.
- Waterproof applications in roofs, balconies & window areas.
- Excellent permanent repair system for cracked area.
- Used to fix and seal waterproofing sheets.
- It is fit for the waterproofing and sealing for various kinds of roofing engineering, color steel, steel structure, waterproof roll and PC sheet which are exposed to the sunshine.
- Insulation of metal facades and air ducts against water and moisture.

ADVANTAGES

- The butyl adhesive offers excellent high bond strength and long life durability.
- The adhesive forms an immediate bond with no curing time & is chemically inert (safe to use).
- No pre heating & the adhesive does not leach or stain.
- Good cold temperature bonding.
- Excellent resistant to aging, weathering and UV.
- Non-toxic.
- Very easy to apply (self-adhesive).

SPECIFICATION

Colors	Tape available in various colours: -Upper side: Aluminium foil -Lower side: Self-adhesive butyl rubber compound protected with a release film, in grey
Density (gr/cm³)	1,5± 0,2
Dimensions: Width (mm) Thickness (mm)	50-100-150-200-250-300 1 Other sizes are available on request.
Roll lengths (meters)	10
Life Expectancy	In excess of 25 years
U.V. Resistance	Excellent
Service Temp. Range	-40°C to +90°C
Application Temp. Range	+5°C to +40°C
Shelf Life	36 months in ambient conditions (+10° C and +25°C)

HYDROFLEX BBA SERIES

Aluminium Flashing Butyl Tape





Hydroflex BBP Series Nonwoven Butyl Tape is a single sided Butyl Adhesive tape with a non woven polyester fabric exterior layer and is coated one side with a high tack butyl adhesive. The adhesive layer is protected by apeelable paper release liner. The fleece fabric surface of the sealing tape allows for painting, plastering and therefore completely covered installation.

TYPICAL USES

- Excellent waterproofing, airtight tape for building & construction applications.
- Waterproof applications in wetrooms, balconies & window areas.
- It has been used under tiles in wetroom areas
- Excellent permanent repair system for cracked concrete and plaster areas.
- Used as a secondary waterproof & insulation sealing system with in the building structure.
- Used to fix and seal waterproofing sheets.

ADVANTAGES

- The butyl adhesive offers excellent high bond strength and long life durability.
- The adhesive forms an immediate bond with no curing time & is chemically inert (safe to use).
- Easily applied, no pre heating & the adhesive does not leach or stain.
- Good cold temperature bonding.

SPECIFICATION

Colors	Grey
Density (gr/cm ³)	1,5± 0,2
Dimensions: Width (mm) Thickness (mm)	100-150-200-250-300 1 Other sizes are available on request.
Roll lengths (meters)	10
Life Expectancy	In excess of 25 years
U.V. Resistance	Excellent
Service Temp. Range	-40°C to +90°C
Application Temp. Range	+5°C to +40°C
Shelf Life	36 months in ambient conditions (+10°C and +25°C)
Elongation	Up to 35%

HYDROFLEX BBP SERIES

Polypropylene Fabric Covered Butyl Tape

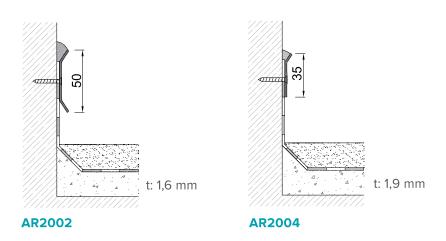




Insulation Pressure Profile And Finish Profiles

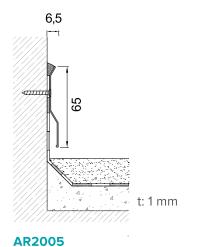


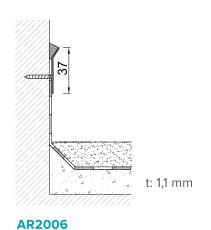
It is a product group that is used at the end points of insulation in all kinds of bituminous, pvc, tpo, tpe membrane applications and completes waterproofing. There are surface mounted and flush mounted models as well as wide flashing types are available.

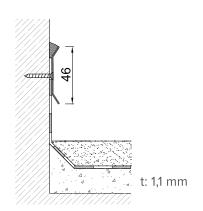


HYDROFLEX INSULATION PRESSURE PROFILE AND FINISH PROFILES

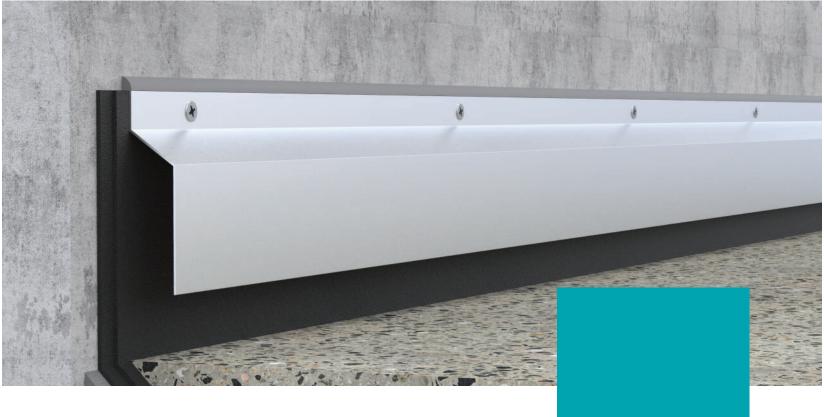
Decorative Appearance







AR2007

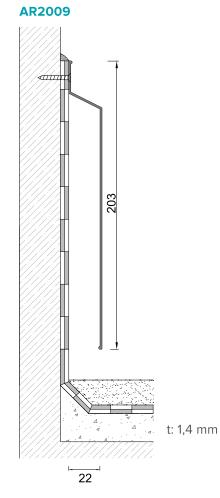


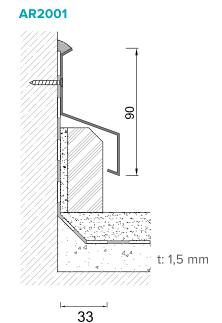
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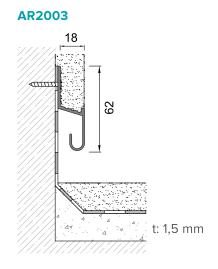
AR2008

HYDROFLEX INSULATION PRESSURE PROFILE AND FINISH PROFILES

Complements Waterproofing









we build solutions







































ARFEN CONSTRUCTION Product Groups

















Product Groups



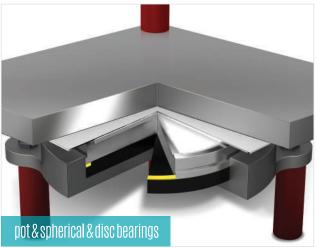








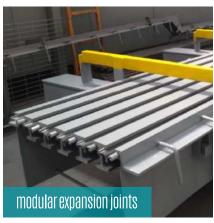


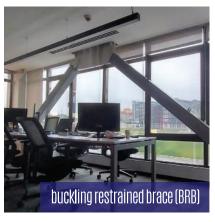




ARFEN BRIDGE AND ROAD TECHNOLOGY **Product Groups**











we build solutions...













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