

## de neef® Waterbars & Accessories

### Bentorub +

Bentorub®+ is a green flexible hydrophilic strip made of natural sodium bentonite clay and synthetic rubber. It comes in lengths of approx. 5 metres.



Due to the shrinkage of the drying concrete, small cracks and voids will appear in the construction and cold joints, through which water can penetrate. In contact with water, Bentorub®+ will swell to approximately 400% of its original volume. The expansive clay mass will thus seal these hair line cracks and voids in the joint.

### Bentorub Salt

Bentorub® Salt is a red flexible hydrophilic strip made of natural sodium bentonite clay and synthetic rubber.



Bentorub® Salt has the same qualities as Bentorub®+ but is manufactured to be used in contact with salt or brackish water. In contact with salt water, Bentorub® Salt will swell to approximately 250% of its original volume.

### Bentorub Accessories

**Bentosteel** - Galvanised steel wire mesh for secure installation of Bentorub®+ in horizontal and vertical applications.

**Bentoglue** - Bentoglue is a high strength adhesive for glueing Bentorub®+ bentonite

**Bentostic** - Bentostic is a green hydrophilic levelling putty to be used in conjunction



#### Technical Data

Product	Size
Bentorub +	20mm x 25mm x 5m (30m per box)
	20mm x 10mm x 5m (35m per box)

#### Applications

- Bentorub®+ is designed for sealing construction joints, cold joints and working joints in concrete, around pipe penetrations, in sewer joints, against slurry walls, sheet piling, etc.
- Can be used in combination with Infiltra Stop in situations, which are deemed to be high risk

#### Technical Data

Product	Size
Bentorub Salt	20mm x 25mm x 5m (30m per box)

#### Applications

- Bentorub® Salt is designed for sealing construction joints, cold joints and working joints in concrete, around pipe penetrations, in sewer joints, against slurry walls, sheet piling in contact with salt water and brackish water.

#### Technical Data

Product	Size
Bentosteel	30No. units each 1m in length
Bentoglue	310ml cartridge (approx 6m per cart)
Bentostic	5kg Pail

## de neef® Swellseal Mastics & Strips

### Swellseal 3V

Swellseal 3V is an elastic strip made out of a combination of rubber and a hydrophilic resin. Enclosed between prefabricated concrete elements, it will expand in contact with water and in this way seal the joint. Swellseal 3V has a swelling capacity of up to 3V in contact with water.



### Swellseal Joint

Swellseal Joint is a flexible co-extruded vulcanised strip made out of a combination of chloroprene rubber and a hydrophilic resin. The orange part has a swelling capacity of up to 600% in contact with water. The black part (= compression zone) has a swelling capacity of 150%. The ridged finish assures a better adhesion to concrete



### Swellseal Mastic / WA

Swellseal Mastic is a one-component, polyurethane based, solvent free, hydros swelling mastic, supplied in cartridges and aluminium sausages, for the sealing of construction joints and around pipe penetrations.



Swellseal WA to be used for wet / underwater applications.



#### Technical Data

Description	Size
Black	20mm x 5mm x 15m (5 per box)
Contact Adhesive	1 Litres

#### Technical Data

Description	Size
Orange/Black	20mm x 7mm x 10m (3 per box)
Contact Adhesive	1 Litres

#### Technical Data

Product	Size
Swellseal Mastic / WA	310ml Cartridges
Swellseal Mastic / WA	600ml Sausages

#### Applications

- Due to its special formulation, Swellseal® WA can be applied to wet surfaces or in underwater applications.
- Swellseal® adheres to concrete, PVC, HDPE, steel, and fibreglass

## **de neef** Coatings & Repair

### Aquatek Elastic 2C

Aquatek Elastic 2C is a 2-component coating containing cement, selected silica's, fibres, modifiers and a water based acrylic liquid.



Aquatek Elastic 2C cures into a flexible, waterproof coating which allows a movement up to 0,6 mm and up to 1,2 mm if reinforced with Reinforcement Mesh.

### Aquatek Super XA

Aquatek Super XA is a powder with a very high concentration of active ingredients, composed of Portland cement, selected silicas, chemically reactive ingredients and modifiers.



When mixed with water and applied to a concrete surface, its active chemicals combine with the free-lime and the humidity, to form long chained insoluble crystalline complexes which block the capillaries and micro-fissures in the concrete, thus stopping water penetration.

### Aquatek Plug (XF)

Aquatek Plug & Plug XF are powders composed out of cement, selected silicas and modifiers.



When mixed with clean water Aquatek Plug & Plug XF provide rapid setting plugging mortars.

Technical Data		
Colour	Packaging	Consumption
Grey / White	23 kg bag with plastic liner + 9 kg pail	Approximately 3.4 kg powder/m/mm.

Applications
<ul style="list-style-type: none"> <li>Waterproofing of concrete and masonry which are susceptible to movements under positive or negative water pressure- below or above the ground water table.</li> <li>Horizontal and vertical applications in water reservoirs, tunnels, caves, swimming pools, etc.</li> </ul>

Technical Data		
Colour	Packaging	Consumption
Grey / White	25 kg bags with plastic liner	approx. 1.50 kg/m <sup>2</sup> powder

Applications
<ul style="list-style-type: none"> <li>Waterproofing and protective coating for concrete constructions, both below and above ground. Basements, water reservoirs, water tanks, water treatment plants, tunnels, swimming pools, canals, conduit pipes, ponds etc. can be permanently sealed with Aquatek Super XA.</li> </ul>

Technical Data		
Colour	Packaging	Consumption
Grey	10 - 25 kg metal pail	approx. 1,45 kg powder per 1L of water.

Applications
<ul style="list-style-type: none"> <li>Stops active water leaks and seepage, even under high pressure through joints, cracks, honeycombing and holes in all structures made out of concrete, masonry, stone and renders</li> </ul>

## **de neef** Resins

### Denepox 40

An ultra low viscosity, 2-component epoxy injection resin for structural injections in concrete.

Denepox 40 can be used in a dry or wet environment



### Gelacryl Superflex

Gelacryl Superflex is a 2 component acrylic based hydrophilic resin, consisting of 2 components: a resin and a catalyst which are pumped with a twin piston pump at a 1/1 ratio.

Once polymerised, Gelacryl Superflex forms a resilient, highly elastic gel. SP200 Catalyst & TE300 initiator to be ordered separately.



Technical Data		
Colour	Packaging	Consumption
Transparent	Part A - 2.3kg pail Part B - 0.7kg pail	Dependant upon width / depth of cracks

Applications
<ul style="list-style-type: none"> <li>Low pressure injection for structural bonding of cracks a in concrete.</li> <li>Bonding and anchoring.</li> <li>Sealing of porous low density concrete.</li> <li>Denepox 40 is not suited for applications in contact with moving water</li> </ul>

Technical Data		
Colour	Packaging	Consumption
Transparent	25 kg drum	Dependant upon size of cracks

Applications
<ul style="list-style-type: none"> <li>Repairing water leaks in structures under permanent water pressure.</li> <li>Water control during tunnelling operations.</li> <li>Curtain grouting.</li> <li>Waterproofing of underground structures in concrete or masonry.</li> <li>Waterproofing of tunnel liners.</li> </ul>

## de neef® Polyurathane Grouts

### HA Cut

1-component, low viscosity, hydrophobic, aqua-reactive, semi-rigid polyurethane injection grout for cutting off gushing water leaks with a high flow rate and/or high hydrostatic pressure in applications where both high strength and flexibility are required.



### HA Cut Cat

HA Cut Cat are pink non-flammable liquids. HA Cut Cat are catalysts for HA Cut water-cutting resin for applications in cold temperatures or when use of the standard catalyst does not give a fast enough reaction. HA Cut Cat F is used in 5-10% mixing ratio.

### HA Flex LV

1-component, medium to low viscosity, hydrophobic, aqua-reactive, flexible polyurethane injection grouts for filling and repairing of joints and water leaks in concrete constructions.



### HA Flex Cat

HA Flex Cat are non-flammable liquids. HA Flex Cat are catalysts for HA Flex LV water-cutting resin for applications in cold temperatures or when use of the standard catalyst does not give a fast enough reaction. HA Flex Cat is used in 5-10% mixing ratio.

#### Technical Data

Product	Packaging
HA Cut	25 kg drum
HA Cut Cat	2.5kg bottle

#### Applications

- Designed for cutting off gushing water leaks with a high flow rate
- Used to block leaks into diaphragm walls.
- Filling large voids such as rock fissures, crushed faults, gravel layers, joints, cracks and honeycombs in concrete structures
- For curtain injections behind tunnel segments.
- For screen injection behind porous structures when high velocity water streams are present.

#### Technical Data

Product	Packaging
HA Flex LV	25 kg drum
HA Flex Cat	1kg bottle

#### Applications

- Designed for grouting joints / stopping water leaks in concrete structures
- Used for protective waterproofing and gap filling
- For stopping water leaks through joints between tunnel segments.
- For injection of the LPDE or HDPE membrane in tunnel constructions.
- For curtain injections behind tunnel segments.
- Injection of LDPE or HDPE membrane in tunnel construction.

## de neef® Infiltrastop Injection System

Infiltra Stop is a preventative injection tube for the permanent sealing of cold and construction joints in concrete, pipe penetrations and voids between slurry walls and slabs, etc. Where new and old concrete will join an injection tube is installed.



When water is infiltrating into the joint, a De Neef injection grout is injected through the PVC end pieces, which protrude out of the concrete at easily accessible places. This way the joint is sealed. Preferably, the injection will be executed after curing and setting of the concrete. The leaking joints can thus be permanently sealed.

#### Technical Data

Product	Packaging
Infiltrastop	30m Kit
Reinforced PVC Tube	2.5m + caps
Anchoring Clips	100 No.
Blue Trumpets	10 No.

#### Applications

- Sealing of cold and construction joints, pipe penetrations, joints between slurry walls and slabs through post-injection of the tube with De Neef resins.

## de neef® Crack Injection Kit

Complete epoxy resin injection system in kit form for injecting small or shrinkage cracks in concrete constructions.

The kit is composed of 40 crack injectors, a quantity of epoxy injection resin, rubber gloves, polyester paste for fixing the crack injectors to the surface, a pallet knife and syringes



#### Technical Data

Product	Packaging
Crack Injector	40 Pieces
Polyester Paste	1 Kit
Pallet Knife	1 No.
Rubber Gloves	2 Pairs
Syringes	2 Pieces
Denepox 40	1.5kg