

Hydrophilic swelling sealant for watertight sheet pile joints.



Field of application

- Sealing of the locks between sheet piles.
- Sealing of joints of in-situ cast concrete in wet and underwater applications.
- Sealing joints between precast segments in wet or underwater applications (e.g. manholes, box culverts, cable ducts and pipes).

Advantages

- Due to its special formulation, MEEVER Expanding Seal can be applied onto moist surfaces or in underwater applications.
- Solvent free.
- MEEVER Expanding Seal adheres to steel, concrete, PVC, HDPE, fibreglass, etc.
- The excellent filling and adhesion properties of the product provide a first line filling of cracks and voids, even on lightly humid, smooth or rough surfaces.
- In contact with moist MEEVER Expanding Seal will expand to about 350% of its original volume.
- Flexible system, which adapts to the irregular surface of the substrate.
- Easy application with a standard caulking gun.
- Durable: will exceed the construction's life.
- Good chemical resistance
- Resistant to petroleum products, mineral and vegetable oils and greases.

Description

- MEEVER Expanding Seal is a one component grey polyurethane based, elastic, hydro swelling mastic, supplied in aluminium sausages, for the sealing of expansion joints and around pipe penetrations
- MEEVER Expanding Seal cures and swells in the presence of moisture. Curing Time is dependent on temperature and humidity conditions, i.e. curing time will reduce if RH and °C are higher. MEEVER Expanding Seal will become firm in 24-36 hours.
- Performance is not affected by the curing time.

Application1. application method.

For 600 cc Sausages:

Put the sausage in the empty tube of the caulking gun and cut 0.40 inch. off the top of the sausage. Close the tube and install the nozzle. Cut the nozzles diagonally at the appropriate position

- MEEVER Expanding Seal is applied in an uninterrupted band (minimum 0.40 inch. wide and high), placed with a caulking gun in the middle of the joint or prefab element.
- In case of fresh concrete, MEEVER Expanding Seal should be covered by least 7 mm of concrete on both sides, in order to avoid cracks from the expansion pressure of swelling MEEVER Expanding Seal.

Technical data/properties

Property	Value	Norm
Solids	100%	Test DNC
Uncured		
Viscosity	Gel / Paste	Test DNC
Density (at 20 °C)	Approx. 1,45 kg/dm ³	Din 53504
Slump in vertical applications	< 5 mm	Boeing test
Hand dry (at 20 °C and 60% RH)	10 h	Test DNC
Flash Point	> 130 °C	Pensky-Martens method
Cured (7 days at 25 °C, 10 mm thick		
Swelling capacity in contact with water	Swells to approx. 350% of it's original dry volume.	Test DNC

Appearance

- During application pasty, after curing rubbery.
- Colour: grey

Consumption

Nozzle Diameter	Length Sausage
3 mm	40 – 50 m
6 mm	16 – 20 m
8 mm	8 – 10 m
10 mm	Approx. 6 m

Packaging

600 ml Sausage
16 per box
1 pallet = 40 cardboard boxes
Weight per sausage
• 0,99 kg gross
• 0,90 kg net

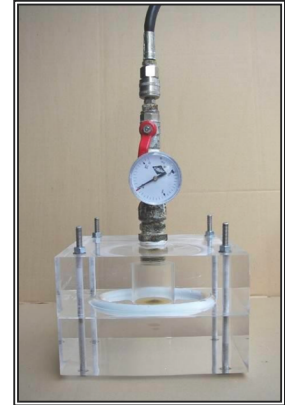
Storage | Minimum 12 months in a dry place at temperatures between 5°C and 30°C.
Shell life: see packaging for information.

Accessories | To be ordered separately:
• Caulking gun for sausages 600 ml closed tube.
• Nozzle for caulking gun 600 mm closed tube.

Health & safety | For full information consult the relevant Material Safety Data Sheet.
(*) For chemical resistances please contact your MEEVER representative.

The pressure resistance of MEEVER Expanding Seal | MEEVER Expanding Seal resists a water pressure of at least 10 bar/1000kPa.

The pressure resistance test can be reviewed by sending us a request by e-mail.



The chemical resistance of MEEVER Expanding seal

Description | About 0,45 kg of cured MEEVER Expanding seal was weighted and immersed in the each test chemical. The change in colour, weight (expressed as % expansion by weight) and eventual chemical dissolving of the product were observed during 70 days. Based on these observations MEEVER Expanding seal was qualified as “resistant”, “limited resistant” or “not resistant” for each of the chemicals.

Results

Product	% Expansion	Observation
Unleaded fuel	23%	M.E.S. turns yellow, resistant
Gasoline	2%	M.E.S. turns yellow, resistant
Toluene	111%	Resistant
Xylene	48%	Resistant
Methanol 50%	201%	Resistant
Isopropanol 50%	207%	Resistant
N-methyl pyrrolidone	311%	M.E.S. turns yellow, limited resistant
Ethyl acetate	99%	Resistant
Methyl isobutyl cetone	41%	Resistant
Formol 36%	212%	Resistant
Acetic acid 10%	76%	Limited resistant
Sulphuric acid 10%	95%	Resistant
Sulphuric acid 20%	117%	Resistant
Sodium hydroxide 20%	15%	Resistant
Sodium chloride 26%	10%	Resistant