

# EUCOPREV S 4V

## SYNTHETIC SWELLTAPE FOR ACTIVE SEALING OF CASTING JOINTS, CONSTRUCTION AND RENEWAL JOINTS

### FIELD OF APPLICATION

EUCOPREV S 4V is fixed in casting joints, construction joints and renewal joints or in joints between prefab elements. In contact with water and enclosed in or between concrete EUCOPREV S 4V will swell and actively stop the water infiltration.

- Construction joints in concrete
- Renewal joints
- Sealing of pipe connections
- Construction joints against prefab concrete elements
- Cold joints between prefab concrete elements
- Pipe penetrations in concrete elements
- Joints between floor slabs/walls, secant piles, slurry walls, sheet piling.
- etc...

### BENEFITS & FEATURES

- Environmentally friendly
- Good impact resistance
- Permanently active system with repeated "wet/dry cycles"
- Swelling capacity up to 300% (>4V).
- Strip will not sag if installed correctly
- Flexibility and very high swelling capacity This allows EUCOPREV S 4V to absorb limited movements in the structures. (Not suitable for waterproofing expansion joints)
- Resistance up to 6 bar water pressure
- Permanently active system with repeated "wet/dry cycles"
- Easy installation, no special equipment required

### APPLICATION

#### Application conditions

Check that the swelling pressure that will be transferred to the concrete is not too big. Sufficient concrete cover is therefore important. Place the strip centrally in the casting joint. Or in the cavity that is already provided with prefab elements. Take into account an 8 cm concrete cover on both sides of the EUCOPREV S 4V. This is to avoid possible cracking of the concrete due to the swelling pressure of the strip. Do not place the strip in rainy weather or on a wet surface to prevent premature swelling.

The recommended application temperature is between -20°C and +75°C.

#### Tools & complementary products

- EUCOCOL MS\* (to be ordered separately)
- Nails, washers, nail gun or cartridge gun\*. (\*Depending on the chosen fixing method)

#### Preparations

The surface must be dimensionally stable and must be free of dust, oil, stains and other impurities by brushing, etc... Make sure that the surface is dry and free from free standing water. EUCOPREV S 4V is a ready-to-use product. When gluing the strip, apply the adhesive EUCOCOL MS according to the respective technical data sheet and apply centrally where the joint will be.

### Application of the product

EUCOPREV S 4V can be installed by bonding with EUCOCOL MS or by nailing. To guarantee a watertight joint, a side overlap of at least 5 cm is necessary. EUCOPREV S 4V must be in full contact with the substrate and placed centrally where the joint will be, between the internal and external reinforcement bars or in the cavities already provided (for example with prefab elements).

#### Bonding:

See also the EUCOCOL MS technical data sheet. EUCOPREV S 4V must be pressed firmly into the applied EUCOCOL MS adhesive within 10 minutes. In some applications, the combination of bonding and nailing can ensure that the band is extra firmly attached to the concrete. Use 4 nails with washer per meter.

#### Nailing:

Roll out EUCOPREV S 4V in the centre of the joint and press the strip firmly against the surface. Nail the strip against the surface with nails and a washer in one operation. Always use 4 nails with washer per meter.

### Finishing

Immediately after installing EUCOPREV S 4V, any formwork to be provided can be installed. When nailing the strip, the concrete can be poured immediately. When glueing the strip, it is necessary to wait with the concrete until the EUCOCOL MS has hardened for 24 hours.

### Cleaning of the tools

Does not apply

### MAINTENANCE AFTER APPLICATION

Does not apply

### TECHNICAL DATA

#### Consumption

Consumption depends on the total length of the construction joint to be treated. Take into account a minimum lateral overlap of 5 cm.

#### Technical data & reaction times

Property	Value
Basic raw materials	Synthetic elastomer with paraffin-based plasticizers and additives
Swelling capacity	> 300% (> 7V)
Density	1,21 kg/dm <sup>3</sup>
Resistance to water pressure	6 bar
Elongation	> 300%
Tensile strength	> 2MPa
Application temperature	-0°C to +75°C
Odour	Odourless

### Chemical resistances

Good chemical resistance, also against organic chemical compounds (hydrocarbons). When used in applications with chemically polluted water, it is advisable to consult your EUCCHEM BV representative.

### Additional documentation & referrals

Always consult all technical data sheets of the products to be used. Always work with clean tools in good condition.

## APPEARANCE - COMPOSITION - PACKAGING

EUCOPREV S 4V is a blue, rectangular shaped strip.

Dimensions and packaging:

EUCOPREV S 4V - 20 x 5 mm.  
10 meters long strip.  
5 x 10m strips per box (= 50m per box)  
60 boxes per pallet (= 3000 m per pallet)

EUCOPREV S 4V is sensitive to moisture, storage takes place in a dry room between +5°C and +30°C and has an indefinite shelf life if stored under the conditions described above.

EUCOPREV S 4V is non-toxic.

## ADDITIONAL COMMENTS

EUCOPREV S 4V only works when it is completely enclosed in the concrete so that it can generate enough pressure to guarantee the watertightness of the joint. For special applications it is advisable to consult your EUCCHEM BV representative.

## SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at [www.eucochem.com](http://www.eucochem.com). When in doubt, contact our technical service.

All information in this technical data sheet is provided in good faith and without any guarantees. The choice of a product for any application by the buyer or applicator, the processing of the products, the preparations, the finishing, the use of the right equipment to apply the products and all this in the broadest sense, are entirely beyond our control and are therefore entirely the responsibility of the buyer or applicator. Therefore, EUCCHEM bv cannot be held responsible on the basis of what is mentioned above. Should EUCCHEM bv nevertheless be held responsible for damage incurred, the claim will always be limited to the value of the necessary EUCCHEM bv products to be delivered in order to carry out a minimal repair. EUCCHEM bv strives to deliver products of consistent, good quality. All values on the technical data sheet are average values and are the result of tests performed under laboratory conditions. Values that are measured in jobsite conditions and the like may deviate from the stated values. This is because the environmental conditions, the application and the manner of processing our products are also outside our control. Please note that you should not add any products other than those indicated in our technical documentation. Only use EUCCHEM bv products for a system under construction. If you combine products from different suppliers or brands, the warranty expires irrevocably. When applying the EUCCHEM bv products it is necessary to draw up a construction site log and to fill it in on a regular basis. EUCCHEM bv can consult the construction site log at any time and / or request a copy to check whether the products and systems have been correctly installed or installed in accordance with the regulations set by EUCCHEM bv. We also refer to our general terms and conditions in case of dispute. This version of the technical data sheet replaces all previous versions. Version 1.0 Date: 14 October 2021 11:07 am