

COSTAR EXPANSEAL

One Component Polyurethane Sealant

Description

Costar Expanséal is one component polyurethane expansion joint sealant suitable for both vertical and horizontal joint sealing.

Benefits

- Easy application
- Resistant to chemicals.
- Permanently waterproofs after curing
- Over paintable
- High sagging resistant due to its thixotropic properties
- Fully waterproof after it is cured

Application Areas

- Sealing of expansion joints both vertically and horizontally
- It is suitable for waterproofing of water tanks and swimming pools joints exposed to chemicals.
- Concrete panels joints
- Precast panels
- Concrete steel or any other substrates
- Irrigation channels
- Roof and terraces joints

Surface Preparation

Surface preparation is the most important step before application of sealant to get best results and to avoid failure. All surfaces must be clean, free of grease, oil, dirt, wax, and other foreign matter. Clean the joint surface by wire brush and sanding with emery paper. Cleaning agents (brush) maybe provided they are thoroughly rinsed before application. If substrate is not sound/firm apply Costar primer to strengthen the surface.

Product Application

Place the backer rod into the joints carefully at an appropriate depth. Place the sealant into the gun, and cut the nozzle from the farthest end to deliver the right bead size. Apply Costar Expanséal at a minimum depth of 10mm and with 20mm into the joint, ensuring that no air is trapped in the joint. Wide joints may require more than one application with the gun in order to ensure that the sealant is in full contact with the sides and bottom of the joint. Smoothen the sealant immediately after the application.

Theoretical Coverage

Depth (mm)	Width(mm)			
	10	15	20	25
10	5-6m	3-4m	2-3m	2m

Consumption rate depends on the shape and width of the joint

Packaging

600 cc Sausage

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Technical Details

Coating type	1K Polyurethane Sealant
Color	White, Grey
Density (20°C)	1,15 gr/cm ³ ±0.03
Service Temperature	-30°C to +80°C
Application Temperature	+5 °C to +35 °C
Modulus 100% (ISO 8339)	0,3 MPa Shelf life
12 Months Tear Strength (DN 53515)	6,5 N/mm
Hardness ASTM D2240,DIN 53505,ISO R 868	± 25 (Shore A)
Elongation Percentage (23°C)(ASTM D 412)	~ % 600
Adherence on Concrete (23°C)(ASTM D 903)	~ 2 N/mm ²
Pot life and drying time depends on temperature	Touch Dry: 60-90 minutes
Dry Time	Time 2mm 124 Hrs

Storage and Shelf Life

12 months if stored in its original package, away from direct sunlight and moisture, between +10°C and +25 °C

Precaution

Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Hands and eyes must be protected with gloves and protective glasses. Case of eye contact, rinse eyes with plenty of water for the material and consult a doctor immediately. Keep in mind that solvents are heavier than air so they creep on the floor.

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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