



COSTAR EXPANSEAL 300

Two Component Polyurethane Expansion Joint Sealant

PRODUCT DESCRIPTION

Costar Expansel 300 is a self-leveling polyurethane sealant ideal for horizontal applications that allows continual movements of the structure caused by thermal changes without cracking. When the Part A and B components are mixed together leads to a chemical reaction, which cures to a firm, flexible rubber like seal with excellent adhesion to concrete, masonry, wood, glass, acrylic, stone, metal and many other common building substrates.

FEATURES

- Easy application
- Fast cure and over paintable
- Self-leveling consistency
- Possesses permanent elasticity
- High adhesion strength
- Allows joint movement
- Weather resistant, producing long-lasting weathertight seals.
- Long pot life offering extended working time
- Formulated to withstand heavy pedestrian / foot traffic.

APPLICATION AREAS

- Used for sealing of horizontal joints both internal and externally
- Expansion joints between many different construction materials
- Industrial floors, sidewalks and garages
- Sealing of expansion, contraction & construction joints in building structure
- Sealing of cracks
- Interior and exterior expansion joints, control joints, pavers, & sidewalks.

APPLICATION

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.

Mixing:

- Pour entire contents of Component B into Component A.
- Mix for 5-10 minutes to achieve a uniform consistency with a low speed drill (400-600rpm).
- Avoid entrapment of air during mixing.

Installation

- Apply sealant evenly, if necessary, use masking tape and remove the tape while the sealant is still soft.
- Apply sealant in 15 minutes.
- Proper design is 2:1 width to depth ratio.
- If necessary, use backer rod up to adjust joint depth.
- Any masking tape applied should be removed immediately after the sealant is installed.

PACKAGING

Part A: 6Kg

Part B: 3Kg

CURING

Curing time / rates is dependent on the prevailing atmospheric temperature and humidity. Protect joint from dirt and traffic until cured. Initial cure is within 24 hours and complete cure takes approximately 7 days.

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THEORETICAL COVERAGE

DEPTH (mm)	WIDTH (mm)			
	10	15	20	25
10	8-10m	5-6m	4m	1.5-2m

TECHNICAL INFORMATION

PROPERTIES	VALUES
Color (After Mixing)	Grey
Density (20c)	1,35 gr/cm ³ ±0.05
Application Temperature	+ 5°C to + 35°C
Hardness ASTM D2240,DIN 53505,ISO R 868	± 25 (Shore A)
Elongation Percentage (23°C)(ASTM D 412)	> 300%
Adherence on Concrete (23°C)(ASTM D 903)	> 25 N/mm ²
Pot life and drying time depends on temperature	Touch Dry: 90 -120 minutes
Tack Free Time	1-2 Hrs
Chemical Resistance to occasional spillage	
Dilute acid	Resistant
Petrol	Resistant
Kerosine	Resistant
Diesel Fuel	Resistant
Aviation fuels	Resistant
Chlorinated solvents	Not Resistant
Dilute oxidizing acids	Not Resistant

NOTE: *Considering the diversity of paint base and quality, compatibility tests should be done before application.

Finishing

To ensure optimal adhesion and eliminate any air bubbles resulting from the mixing process, it is recommended to promptly tool the freshly installed Costar Expanseal 300 using a rounded spatula or equivalent tool. The objective is to achieve a slightly concave profile on the outermost surface of the sealant.



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SHELF LIFE

Protect from freezing and contamination. Shelf life in unopened, original containers is 12 months, when stored at 68°F (20°C)

HEALTH & SAFETY

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Wear suitable protective clothing, gloves and eye/face protection.
- If swallowed, seek medical advice immediately and show this container or label.
- Keep the coating materials above 10C.
- Do not apply when surface temperature is below 10°C or over 35°C
- Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.
- Once mixed, it must be used within its pot life as specified in earlier section

STANDARD

Meets the requirements of ISO 11600 F 25 LM

LIMITATIONS

- It is advisable to use hand gloves and goggles during application. Avoid application and damp or moist substrate.
- It should be stored at room temperature.

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

