



# COSTAR EXPANSEAL 200

## Two Component Poly-sulphide Sealant

### PRODUCT DESCRIPTION

COSTA EXPANSEAL 200 is a dual-component poly-sulphide joint sealant. Upon thorough mixing of its Part A and B components, it initiates a chemical reaction resulting in a robust, flexible rubber-like seal. This seal exhibits outstanding adhesion to a wide array of building substrates, including concrete, masonry, wood, glass, acrylic, stone, metal, and various other common materials. Notably, it offers exceptional flexibility and possesses commendable chemical resistance, rendering it suitable for vertical applications with utmost efficacy.

### BENEFITS

- Excellent repair ability and bonding property
- Completely water tight when applied on concrete and other surfaces
- No unwanted remoistening
- Sealant will not cause staining to concrete masonry or stones
- Under temperature  $-20^{\circ}\text{C}$  to  $80^{\circ}\text{C}$ , it performs well
- Durable, and unaffected by UV rays, ozone and other weathering conditions
- It has a movement capability that provides satisfactory hermetic
- Sealing of the joint subjected to expansion, contraction, vibration and cyclic movement

### APPLICATION AREAS

- Sealing of expansion, contraction & construction joints in building structure
- Sealing of cracks
- Glazing joints of window, door frame and curtain walls
- Sealing of water retaining structure joints
- Sealing of joints in traffic areas such as, Bridges, roads and car parking areas

### 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 Expansel 200 using a rounded spatula or equivalent tool. The objective is to achieve a slightly concave profile on the outermost surface of the sealant.

### 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.

#### Product Application:

Apply Costar primer to the clean and dry surface using a brush prior to the installation of backer rod or bond breaking tape. The primer should be applied in a thin coat and should be allowed to become tack free prior to the application of the sealant.

The joint edges shall be re-primed if the sealant installation is not carried out within 3 hours of application of the primer. Masking tape shall be applied on both the edges of the groove before applying the primer to obtain a clean and neat finish.

#### Mixing and Application:

Pour the hardener (part B) into the base (part A) pail and mix thoroughly with a slow speed drill (300-400 rpm) fitted to a flat bladed paddle for 2-3 minutes till a uniform color and consistency is achieved. Do not part mix.

Pour the mixed material directly into the joint from the pail. Any masking tape applied should be removed immediately after the sealant is installed.

### PACKAGING

Part A: 4kg

Part B: 2Kg

# COSTAR EXPANSEAL 200

Two Component Poly-sulphide Sealant



## THEORETICAL COVERAGE

DEPTH (mm)	WIDTH (mm)			
	10	15	20	25
10	4m	3.5m	2.5m	1m
15	3.5m	3m	2.2m	1m
20	2.5m	2m	1.5m	0.67m
25	1m	0.83m	0.67m	0.5-1m

\*Consumption rate depends on the shape and width of the joint\*

## TECHNICAL INFORMATION

PROPERTIES	Values
Color	Grey
Density (200c)	1,35 gr/cm <sup>3</sup> ±0.05
Service Temperature	- 20° C to + 80° C
Hardness ASTM D2240,DIN 53505,ISO R 868	± 25 ( Shore A )
Elongation Percentage (23°C)(ASTM D 412)	± 25 ( Shore A )
Elongation Percentage (23°C)(ASTM D 412)	Elongation Percentage (23°C)(ASTM D 412)
Adherence on Concrete (23°C)(ASTM D 903)	> 25 N/mm <sup>2</sup>
Pot life and drying time depends on temperature	Touch Dry: 90 -120 minutes
Tack Free Time	5 Hrs
<b>Chemical Resistance to occasional spillage</b>	
Dilute acid	Resistant
Petrol	Resistant
Kerosine	Resistant
Diesel Fuel	Resistant
Aviation fuels	Resistant
Chlorinated solvents	Not Resistant





# COSTAR EXPANSEAL 200

## Two Component Poly-sulphide Sealant

### 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

BS 4254-1983: British Standard Specification  
C-920-87: American Society for Testing & materials (ASTM).  
DIN-18549: German Standard Specification.

### 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.
- Ensure that two coats of primer are applied on the jointing surfaces

### 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.

