Product Data Sheet

RCC CORROSION CONTROL

COROJOINT 5 PR & 5 TR
Polysulfide Elastomeric Joint Sealant

PRODUCT DESCRIPTION

COROJOINT 5 is a two-component polysulfide elastomeric joint sealant material. It has good chemical resistance and is designed for use in expansion joints, control joints and cracks in concrete.

This joint sealant is available in two consistencies. **COROJOINT 5 PR** is a pour grade for horizontal surface applications. **COROJOINT 5 TR** is a trowel grade version for vertical applications.

JOINT LAYERS COMPOSITION

For joint sealing applications the system normally consists of the one component **COROJOINT 5 PRIMER** and the two-component **COROJOINT 5 PR** or **TR** sealant.

FIELDS OF APPLICATION

COROJOINT 5 has good chemical resistance to dilute acids, alkalis, salts, some solvents and petroleum products. Recommended uses include sealant for concrete joints in corrosion resistant floors and walls, secondary containment, tank chines, and chemical storage floors. **COROJOINT 5** is also used as a flexible membrane option in RCC Corrosion Control Hinge Joint and Crack-bridging Joint designs.

FEATURES

- Good chemical resistance
- Retains its elasticity
- Self-levelling (pour grade)
- Vertical applications (trowel grade)
- Excellent temperature resistance
- Resistant to aging, shrinkage, thermal stress

CHEMICAL RESISTANCE

Information on the chemical resistance properties is available upon request.

SURFACE PRE-TREATMENT

Concrete

The concrete shall have a minimum compressive strength of 3500 psi (25 N/mm²) and a minimum surface strength of 200 psi (1.4 N/mm²) for coatings and 300 psi (2.1 N/mm²) for linings. The concrete must be thoroughly cured and dry at the time of application. The residual moisture content should not exceed 4%. ASTM D 4263 plastic sheet test method is recommended to ensure concrete is moisture free. If moisture is detected, repeat test until dry.

Abrasive blast or mechanically abrade surface to remove the weak laitance and surface contaminants. Refer to specification, RCC TT-3 for further detail.

Note: Joints should be designed for maximum movement of 25% of the joint width.

APPLICATION

A primer should be applied to all surfaces where the joint material is being applied. The **COROJOINT 5 PRIMER** is normally applied using a brush at 3-5 mils (75-125 µm) WFT. Mix **COROJOINT 5 PRIMER** for at least 2 minutes before applying. Primer should be tack-free before application of joint material. Allow to sit for at least 20-25 minutes at 70°F (21°C). Mix the **COROJOINT 5 PR** or **TR Resin** and **Hardener** components together for two minutes using a jiffy mixer powered by a low speed 1/2" (13 mm) electric drill (250–300 RPM), or similar equipment. Scrape the sides of the pail to ensure the components are uniformly mixed.

To place the **COROJOINT 5 PR**, pour the mixed material into the prepared and primed joint. Use a can with a spout to assure control when pouring.

To place the **COROJOINT 5 TR**, use a trowel, spatula or putty knife and apply the mixed materials into the prepared and primed joint.

Refer to RCC Drawing Details for application in specific joint configurations. Masking tape is recommended on surfaces around the joint. Any tape applied on to the substrate must be removed prior to the joint sealant material curing.

Polyethylene closed cell foam backer rod is recommended as backing material for installation in expansion joints.

The maximum depth of the joint sealant should not exceed the width of the joint. For best results, the expansion joint material depth should be one half (½) of the joint width.

MIX RATIO

Hardener No. 1 Clear is added to the **COROJOINT 5 PR or TR Resin** at a mix ratio of 8 oz. of **Hardener** to 1 gal of **Resin** by volume.

The coating components are supplied in pre-measured units so that weighing or measuring of the components is kept to a minimum.

CONSUMPTION

Layer	Joint Dimensions	Coverage
		Theoretical linear feet/gal
COROJOINT 5	½"W x ¼"D	154
	½"W x ⅜" D	102
	¾"W x ⅜"D	68
	¾"W x ½"D	51
	1"W x ½"D	38
	1"W x ¾"D	25

WORKING TIME

Temperature	COROJOINT 5 PR/TR
50°F (10°C)	approx. 90 min
70°F (21°C)	approx. 60 min
90°F (32°C)	approx. 30 min

CURE TIME (to place in service)

Temperature	Cure Time
50°F (10°C)	5-7 days
70°F (21°C)	3-4 days
90°F (32°C)	2-3 days

CLEANING: Cleaning Agent T-100

SAFETY MEASURES

The material safety data sheets of the individual components as well as the legal requirements for handling hazardous materials must be observed.

PACKING UNITS

The products are supplied in the following standard package sizes:

Description	Package Size
COROJOINT 5 PRIMER	1 pint
COROJOINT 5 PR & 5 TR	2 gal kit

STORAGE

The materials must be stored in a cool and dry place. At storage temperature of 70°F (21°C) the shelf life is as follows:

COROJOINT 5 PRIMER 12 months
COROJOINT 5 PR & TR Resin 12 months
Hardener No. 1 Clear 12 months

If the storage time is exceeded, the materials must be tested before use. Higher storage and transport temperatures will reduce the shelf life. The containers must be kept tightly closed. Liquid products must be stored frost-proof.

Technical Data	Testing Standard	Unit	Value
Color			Grey
Solids Content		%	100
Tensile Strength	ASTM D638	Psi MPa	180 1.24
Elongation	ASTM D412	%	200
Hardness	ASTM D2240	Shore A	30-35
Temperature Resistance Range		°F °C	-50 to 200 / -45 to 93
Maximum Operating Temperature* Immersion/Frequent Exposure - Concrete Occasional Splash/Spill - Concrete		 °F °C °F °C	 120 49 200 93

***Maximum operating temperature limits may vary depending on actual service conditions**

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. This Product Data Sheet is considered accurate and reliable to the best of our knowledge at the date of its publication, but are used as guides only. The user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for performance of the product or for any loss or damage resulting from its use. Our liability, in law and equity, shall be expressly limited to the replacement of non-conforming goods at our factory, or at our sole discretion, to repayment of the purchase price of the non-conforming goods.