Product Data Sheet

RCC CORROSION CONTROL

COROJOINT 3 PR & 3 TR
Elastomeric Epoxy Novolac Joint Sealant

PRODUCT DESCRIPTION

COROJOINT 3 is a two component epoxy novolac resin based, pourable grade elastomeric joint sealant material cured with a modified polyamine. It has good chemical resistance and is designed for use to seal expansion joints, control joints and cracks in concrete substrates.

This joint sealant is available in two consistencies. **COROJOINT 3 PR** is a pour grade for horizontal surface applications. **COROJOINT 3 TR** is a trowel grade version for vertical applications.

JOINT LAYERS COMPOSITION

For joint sealing applications the system normally consists of the two-component **COROJOINT 3 PR or 3 TR** sealant. Primer is normally required when using **COROJOINT 3 TR** on vertical surfaces. Primer may be optional for **COROJOINT 3 PR** on horizontal surfaces. Consult RCC Corrosion Control for recommendations.

FIELDS OF APPLICATION

COROJOINT 3 has good chemical resistance to most alkali solutions, salts, a wide range of petroleum products, as well as many mineral acids and most weak organic acids. Recommended uses include sealant for concrete floor joints and cracks in chemical process, storage and secondary containment areas. It is generally used in conjunction with corrosion resistant floor coating systems although it is often used as a standalone sealant for joints and cracks.

FEATURES

- Good chemical resistance
- Solvent free, low odor
- Retains its elasticity
- Self-levelling (pour grade)
- Vertical applications (trowel grade)
- 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

- Use **COROFLAKE 67PS, 70 or 71 PRIMER** where **COROJOINT 3 TR** is being applied. Primer may be optional for **COROJOINT 3 PR** applications.
- Mix the **COROJOINT 3 Resin** and **Hardener** together for two minutes using a jiffy mixer, or equal, powered by a low speed 1/2" (13 mm) electric drill (250–300 RPM). Scrape the sides of the pail to ensure the entire product is mixed appropriately.
- For **COROJOINT 3 PR**, pour the mixed material into the joint or crack. Use a can with a spout to assure control when pouring. For **COROJOINT 3 TR**, trowel the mixed material into the joint or crack. Refer to RCC Drawing Details for application with specific joint configurations.
- Masking tape is recommended on surfaces adjacent to the joint. Any tape applied on to the substrate must be removed prior to the joint 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

The mix ratio of the **COROJOINT 3 PR/TR** components is **1:1.5** (Resin to Hardener) by volume.

In atmospheric exposure **COROJOINT 3 PR/TR** has a tendency to chalking with time. Discoloration may also occur depending on the chemical exposure.

CONSUMPTION

Layer	Joint Dimensions	Coverage
		Theoretical linear feet/gal
COROJOINT 3	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 3 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)	2-3 days
90°F (32°C)	1-2 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 3 PR & 3 TR	0.75 & 2.5 gal kits

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 3 PR & 3 TR Resin 24 months
COROJOINT 3 Hardener 24 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
Solids Content		%	100
Tensile Strength	ASTM D638	Psi MPa	1000 6.9
Elongation	ASTM D412	%	100
Adhesion Strength - Concrete	ASTM D7234	psi	exceeds concrete strength
Color			Grey
Maximum Operating Temperature* Immersion/Frequent Exposure - Concrete Occasional Splash/Spill - Concrete		 °F °C °F °C	 130 54 160 71

***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.