HYDROPHOBIC LIQUID EPOXY

EPAR 226

TECHNICAL DATA

1.0 DESCRIPTION

EPAR 226 is a low viscosity, unfilled epoxy with excellent mechanical properties. EPAR 226 may be used for a variety of applications as supplied or may be mixed with suitable aggregate to make epoxy mortars, grout or toppings.

2.0 PHYSICAL PROPERTIES:

2.1	Viscosity		low.
2.2	Mix Ratio		Three parts resin : 1 part hardener.
2.3	Pot Life		20 – 30 minutes at 20°C.
2.4	Minimum Application Temp.		10°C.
2.5	Shelf Life		1 year in original unopened containers.
2.6	Cured Properties		(Unfilled at 20°C)
	2.6.1	Colour	Transparent
	2.6.2	Specific Gravity	1.1
	2.6.3	Compressive Strength	55 MPa 2 days, 87 MPa 7 days.
	2.6.4	Compressive Modulus	2 GPa.
	2.6.5	Tensile Strength	24 MPa.
	2.6.6	Thermal Expansion	5x 10^{-5}mm/mm/°C.
2.7	Cured Properties of Filled Systems		
	2.7.1	Pourable Grout	1 part epoxy: 1.5 parts silica sand.
		Compressive Strength	65 MPa
		Tensile Strength	16 MPa
	2.7.2	Trowellable Mortar	1 part epoxy : 3 parts silica sand.
		Compressive Strength	70 MPa
		Tensile Strength	20 MPa

3.0 USES

3.1 Grouting or bedding of machinery, base plates, crane rails, precast concrete units etc.

3.2 General patching and repair of concrete when mixed with aggregate to form a mortar. Repair of cracks in concrete by injection or gravity feed.

3.3 Grout for fixing bars or bolts into concrete or steel ducts either unfilled or filled depending on dimensions and clearances.

3.4 New to old concrete tie coat.

3.5 Coating/sealer for concrete floors.

Fraser Brown & Stratmore ltd

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EPAR 226

TECHNICAL DATA Continued

4.0 APPLICATION INSTRUCTIONS

4.1 SURFACE PREPARATION. Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitance should be removed from concrete surfaces mechanically or by acid etching. For best results steel surfaces should be prepared by sand blasting or grinding. All surfaces should be dry.

4.2 MIXING. Accurately proportion required volume of resin and hardener ensuring this amount can be used within its pot life. Mix thoroughly preferably using a paint stirrer fitted to a low speed electric drill. During the mixing process scrape the bottom and sides of the container at least once with a spatula or similar tool to ensure all components are incorporated. Mixing should continue for approximately 5 minutes. Take care to avoid air entrapment.

When EPAR 226 is to be mixed with aggregate, resin and hardener should first be mixed as above. Aggregate to be added to the epoxy must be completely dry. Blend in sufficient aggregate to obtain the desired viscosity and mix until an even texture is obtained.

4.3 PRIMING. When EPAR 226 is mixed with more than 3 parts aggregate to 1 part epoxy surfaces to which it is to bond should first be primed with unfilled EPAR 226. For best results, brush apply a thin coating of EPAR 226, working it well into the substrate. Apply aggregate filled EPAR 226 while the prime coat remains tacky

4.4 When trowelling filled EPAR 226, a smooth finish may be obtained by keeping the face of the trowel wet with EPAR Epoxy Solvent.

4.5 CLEAN-UP. Tools and equipment may be cleaned before hardening commences by washing with EPAR CLEAN UP SOLVENT. Clean hands and skin with soap and hot water.

5.0 PACKAGING

1 litre, 4 litre, 20 litre packs.

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