

TECHNICAL INFORMATION

FR1010LV Ceramic-filled Epoxy Mortar is a two-part, filler extended epoxy resin. It has been specifically formulated for the protection of surfaces subject to extreme wear and abrasion caused by solids or slurry. The mortar provides a long-lasting lining to metal and concrete surfaces.

Colour : Resin - White
 : Hardener - Blue
 Mixing Ratio : By Weight -100 parts resin: 50 parts hardener

If the resin component (large tin) is stiff and hard to mix, this is due to moisture absorption in storage through the winter months. Simply pre-heat by applying heat or hot air over the surface. This will release the absorbed moisture and the resin will flow easily again.

Specific Gravity @ 25°C : Mixed Compound 2,0- 2,1 g/cm³
 Viscosity @ 25°C : Thixotropic Paste
 Practical Working Time (Pot Life) : 10kg unit @ 25°C =10- 15 minutes
 Geltime @25°C : 60 minutes on a 5mm thick casting
 @25°C : 25 minutes on a 20mm thick casting
 Setting time@ 25°C : 20mm thick cast = 90 minutes
 Minimum Application Temperature : 5°C
 Coverage : 2 kg / m² (1mm thick lining)

TYPICAL CURED PROPERTIES

Hardness after 24 hours @ 25°C : Shore D 85
 Shrinkage After Cure : Maximum 0,5%
 Elongation (Average) : 1 %
 Tensile Strength : (DIN 53455) 35 MPA
 Impact Strength : (DIN 53453) > 5 kJ/m²
 Compressive Strength : (DIN 53454) Average 110 mPA
 Flexural Strength : (DIN 53452) 96 MPA
 Lap Shear Strength : (ISO 4587) 7,5 MPA on cleaned & roughened mild steel
 Heat Resistance : 85-90°C
 Adhesion : To cleaned and roughened metal and concrete : excellent
 Chemical Resistance : Excellent against water, oil, grease, detergents, diluted acids and alkaline. Resistant to solvents, aliphatic alcohols and aromatics. Against esters, ketones and chlorinated hydro-carbons, tests are recommended.

Water Absorption : Immersion for 24 hrs @ 25°C in diluted water - maximum 2%

Typical Properties

: Easy pourability and good penetration even at lower temperatures. Minimal filler settlement in containers - easily mixable. Fast reactivity and outstanding mechanical properties. Good curing properties at lower temperatures.

HANDLING PROPERTIES

FR1010LV shows no dermatitic properties and has a very low irritation potential at room temperature. Low toxicity at ambient temperatures. However, good industrial hygiene must be observed. See Precautions for Use and Health Hazard Information.

STORAGE STABILITY

FR1010 must be stored under dry and cool conditions in tightly sealed containers. The shelf life is 12 months. Store in cool, dry conditions.

NOTICE

The technical specification and/or our technical advice whether verbal, in writing or by trials is given in good faith and based on our test results obtained but without warranty.

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