

## **TECHNICAL INFORMATION**

Eli - Cote FR1010LV Ceramic-filled Mortar is a two-part, filler extended hybrid polymer 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/cm <sup>3</sup>
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 / m <sup>2</sup> ( 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/m <sup>2</sup>
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**

Eli-Cote 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**

Eli-Cote FR1010LV 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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