



**RSI**  
INDUSTRIAL  
PAINTS Inc.

## SOLVENT-FREE EPOXY MORTAR REP-120

### PRODUCT DESCRIPTION

**REP-120** is a three-component, high flow, high strength epoxy mortar cured with polyamine. It is designed for concrete substrates and large plates where rheology is critical. It contains variety size of aggregate for maximum efficiency. **REP-120** used for primed concrete as intermediate flooring layer.

### GENERAL PROPERTIES

<b>Adhesion</b>	Excellent to primed concrete surfaces.
<b>Chemical Resistance</b>	Excellent resistance to oils, most aqueous systems such as Fresh water, sea water, acids and alkalis.
<b>Crack injection</b>	Excellent penetration along cracks with variety size.

### PHYSICAL PROPERTIES

<b>Color</b>	White /Grey
<b>Volume solid</b>	99±1%
<b>Theoretical spreading rate</b>	1 m <sup>2</sup> /liter 1000 Mic. Dft
<b>Specific gravity (com A)</b>	2.1 ±0.05 kg/liter
<b>Specific gravity (com B)</b>	1.05 ±0.05 kg/liter
<b>VOC</b>	0
<b>Shelf life</b>	12 months (25°C) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage. Storage environment should be ventilated and away from sunlight and high temperature (above 30 ° C)

### MIXING

<b>Mixing ratio (by weight)</b>	Component A: 100	Component B: 13	Component C: Up to 40
<b>Pot life</b>	60 min (20 °C)		

### APPLICATION

<b>Condition</b>	The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. The moisture content in the concrete should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured. Recommended using the minimum of solvent on the trowel to aid workability. Where a very deep recess is to be filled, it may be necessary to build up in layers.		
<b>Application</b>	Trowel	Notched squeegee	
<b>Thinner (max. vol.)</b>	RTH-104 (10-15%)	RTH-104 (10-15%)	
<b>Cleaning tool</b>	RTH-104		
<b>Indicated film thickness, dry</b>	500-1000 microns		
<b>Indicated film thickness, wet</b>	500-1000 microns		

### CURING AND DRYING CONDITION

<b>Condition</b>	Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product		
<b>Surface temperature</b>	23 °C		
<b>Surface drying</b>	1 hour		

Deep drying	10 hours
Full curing	7 days
Recoat interval, min	18 hours
Recoat interval, max	1 day

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## SURFACE PREPARATION

### Surface preparation

Concrete, mortar, stone should be thoroughly prepared by high pressure water jetting or mechanical means such as grinding. Cracks must be cleaned to remove dust with compressed air.

Successful application depends on very careful preparation. The surface to be treated must be structurally sound, free from standing water, oil, grease, surface contaminants. Dirt, dust and other foreign materials must be removed.

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## REMARKS

<b>Preceding coat</b>	Epoxy primer such as REP-101.
<b>Subsequent coat</b>	Epoxy inter mediate coat or top coat .
<b>Film thickness</b>	May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and recoating intervals. Normal range is 500-1000 microns.
<b>Thinning</b>	The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. RTH-104 is recommended in general.
<b>Storage</b>	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment. Shelf life is 12 months from date of manufacture when stored in unopened containers as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

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## SAFETY

This product is intended for use of professional applicators. Applicators and operators shall use appropriate protection equipment when using this product. Use it in well ventilated environment and prevent direct contact with skin. Spillage on the skin should immediately be removed with suitable cleaner. Eye should be well flushed with water and medical cleaner.

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## RSI Co.

Product data sheet REP-120

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