



**RSI**  
INDUSTRIAL  
PAINTS Inc.

## POLYAMINE EPOXY FLOORING REP-316

### PRODUCT DESCRIPTION

**REP-316** is a two component amine cured solvent free epoxy coating. It is a high performance product. It is easy to apply. This product is tintable in a wide range of colors in Industry system. It has excellent chemical, abrasion and impact resistance. If enhanced slip resistance is required Non Slip can be used in the system. To be used as topcoat in atmospheric environments. Suitable on approved primers on concrete substrates. Designed for a wide range of floors with various levels of mechanical and chemical exposure. Specially designed for floors where a dust free, hard wearing and aesthetically pleasing coating is required.

**Recommended for** industrial floors, laboratories, hospitals, food and beverage plants, kitchens, high tech manufacturing facilities, dairies, warehouses, factories and hangars.

### GENERAL PROPERTIES

Adhesion	Excellent to primed surfaces
Corrosion Resistance	Excellent on primed surfaces.

### PHYSICAL PROPERTIES

Colors/Shade No	RAL No
Finish	Gloss
Volume Solid	98±2%
Theoretical spreading rate	1.96 m <sup>2</sup> /liter 500 Mic. Dft.
Flash point	85°C
Specific gravity	1.75±0.1 kg/liter
V.O.C.	Max. 76 gr/liter
Shelf life	1 Years (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

Mixing ratio (by weight)	Component A: 6	Component B: 1
Pot life	45 min at 23 °C	

### APPLICATION

Conditions	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.			
Method	Airless spray	Trowel or Squeegee: Appropriate for many types of surfaces	Roller: To avoid air bubbles, it is very important to pierce the coating with a spiked roller when desired film thickness is achieved.	Brush: Recommended for stripe coating and small areas
Thinner (max. vol.)	RTH-104			
Pressure Nozzle	150 bar/2200 psi			
Nozzle tip	0.021"-0.025"			
Cleaning of tools	RTH-104			
Indicated film thickness, dry	500-1000			
Indicated film thickness, wet	510-1020			

## DRYING AND CURING TIMES

<b>Condition</b>	Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with: * Good ventilation (Outdoor exposure or free circulation of air) * Typical film thickness * One coat on top of inert substrate
<b>Surface temperature</b>	20 °C
<b>Dry to touch</b>	3 hours
<b>Hard dry</b>	24 hours
<b>Full curing</b>	7 days
<b>Recoat interval, min</b>	24 hours
<b>Recoat interval, max</b>	3 days

## APPLICATION AND SURFACE PREPARATION

<b>Condition</b>	To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination. Laitance deposits are best removed by Planetary diamond disc grinder or by captive blasting followed by vacuum cleaning to remove dust debris. For old concrete, RSI technical team should visit the site and appropriate surface preparation methodology should be recommended and that is to be followed.
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Substrate	Surface preparation	
	Minimum	Recommended
Concrete and Coated surfaces	Clean, dry and undamaged compatible coating as per SSPC SP13/NACE NO 6 /ASTM D4258 -05 /ACI 503.6R97/SSPC-TR 5/ICRI TECHNICAL GUIDELINE 03741/NACE02203	Clean, dry and undamaged compatible coating as per SSPC SP13/NACE NO 6 /ASTM D4258 -05 /ACI 503.6R97/SSPC-TR 5/ICRI TECHNICAL GUIDELINE 03741/NACE02203

## REMARKS

<b>Preceding coat</b>	Epoxy Mid coat such as REP-209
<b>Subsequent coat</b>	None.
<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. Thinner RTH-104 is recommended in general.

## SAFETY

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult RSI material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

## RSI Co.

Product data sheet REP-316  
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