

## INSUGUARD RB

INSUGUARD RB High quality rubberized base, emulsified liquid bitumen, which serves as a first layer of an insulation system which forms a finished film and tough barrier to water vapor transmission. INSUGUARD RB is a low viscosity substance with fast-drying effects and superior water resistance that complies with ASTM D 1227 Type III, Class II- without fibrous reinforcement.

### KEY FEATURES

- Water-based and excellent adhesion to most building substrates ( Concrete, Steel, Wood, etc..)
- Applicable on damp surfaces.
- Acts as a curing compound for concrete as water retention
- Versatile areas of application
- Cold applied and act as protective shield for concrete and masonry
- Environmentally friendly by being non-hazardous and easily applied
- Non- flammable
- Resistance to attacks of salts and chemicals
- Cost-efficient

### APPLICATIONS

INSUGUARD RB Is used for general waterproofing and damp proofing of concrete foundations that are in contact with groundwater. It can be also used as a protective coating for built-up roofing systems and on a wide variety of surfaces such as concretes, brick, etc.

### INSTRUCTIONS

The application temperature should be between 5°C to under maximum temp 45°C. INSUGUARD RB can be applied by brush, roller or airless spray gun. The general recommended guide lines for the application of the bitumen coating are as follows:

- 1. Surface preparation**  
The surface must completely be cleaned to eliminate all impurities like dust, traces of curing compound, oil and grease. The surface imperfections and protrusions must be removed and repaired to create an even surface finish. All structurally uneven and brittle concrete must be removed.
- 2. Priming**  
The primer coat can be made at site by diluting the same bitumen emulsion with 15-20% water. Allow the primer to dry before any further coats are applied.
- 3. Application**  
Add 5-10% of clean water to waterproofing and protective coating and stir before application. Normally two or three coats are required, depending on the degree of protection required. In case INSUGUARD RB is going to be covered with screed, it is vital to assure that the final coat first is blinded with clean dry sharp sand immediately after application. Following this procedure, make sure to dry and brush off any excessive sand layer.
- 4. Cleaning**  
All tools should be cleaned with clean water immediately after use. Hardened material can be dissolved with a solvent with clean water and hardened material can be clean with a solvent.

### COVERAGE

Moisture vapor barrier coating: 3-4 m<sup>2</sup>/kg/coat. This might differ depending on substrate porosity.

### STORAGE AND SHELF LIFE

To guarantee the performance of the product, the drums and pails must be stored in a covered area, away from direct sunlight and other sources of heat, to avoid deterioration of the product which in turn will reduce its shelf life. The shelf life is up to 12 months when stored as per recommendations.

### HEALTH AND SAFETY

Protective clothing such as gloves and goggles should be worn when handling the product. In case of any splashes to the skin or eyes, rinse with fresh water immediately. If medical attention is required, ensure that the product container with content details and instructions are available for examination by the medical care personnel.

### PACKING

TEST	UNIT	TEST METHOD	RESULTS
Form	-	-	Premium bitumen liquid emulsion with low viscosity
Color	-	-	Brown dries to black
Density, gm/cm <sup>3</sup> (specific gravity)	gm/cm <sup>3</sup>	ASTM D 2939	1 ± 0.05
Bitumen Content	%	As a result from ASTM D 2939	50±2
Full Cure	hrs	ASTM D 2939	24
Drying Time (Touch dry)	hrs	-	1— 2 at 25°C
Time between two coats	hrs	-	3-4
Application temperature	°C	-	5°C to under maximum temp 50°C
Heat test	°C	ASTM D 2939	100 ± 3 no blistering, sagging, or slipping
Resistance to water	hrs	ASTM D 2939	24 No blistering or re emulsification
Chemical Resistance	-	-	Excellent to dilute (acids & sulphates, chlorides, etc.)
Flash Point	-	-	Non- Flammable.
Rubber Content	-	-	10 %
Elongation	%	ASTM D 412	> 200
Service Temperature	°C	-	-15°C to +100°C
Viscosity	ku	-	80±10 @ 25°C

- INSUTECH reserves the right to modify product specifications due to customer request and/or continuous product development without any prior notice
- The following test result conforms to ASTM D 1227 Type III, Class II- without fibrous reinforcement.
- This publication revokes any previous one. Issue. 1/ © 2017