



# TREMproof® Micorea S3

Two-Component Spray Applied Pure Polyurea system

## PRODUCT DESCRIPTION

TREMproof® Micorea S3 is a 100% solids, flexible, two-component spray applied pure polyurea system designed for waterproofing and coating application for concrete, metal and other substrates. It cures quickly allowing rapid installation and a seamless durable waterproof coating system.

## BASIC USES

TREMproof® Micorea S3 is applicable to wide varieties of application on different substrate as Concrete, metal, plastics and others with appropriate primer as recommended by Tremco CPG India.

- Roof & Terraces
- Roof Gardens
- Stadium, Service Roofs,
- Podium, Refuge, Balconies
- Cut-n-Cover Tunnels, Retaining walls
- Water Structures, Swimming Pool & water features

## FEATURES AND BENEFITS

- Fast return to service
- Excellent impact, abrasion, and puncture resistance
- Seamless and easy to detail
- Enhances durability of concrete
- Waterproofing and low permeability
- High Crack bridging ability
- Wide temperature application range
- Can be left exposed with Topcoat(TREMproof TC)

## AVAILABILITY

Immediately available from your local Tremco CPG India sales representative or approved applicators.

## PROCESSING PARAMETERS

PROPERTY	VALUE
Block Temperatures, °C	+65 to +85
Hose Temperature, °C	+65 to +85
Ratio, V/V	1:1
Pressure, Bar	180
Gel Time, Sec	8
Trafficable (Light Duty), hrs	24 Hrs
Fully Serviceable, Days	3

## COVERAGE RATE

Average 1.5 Lit / Sqm for 1.5mm DFT\*

Higher coverages are applicable as per technical requirement

\*Wastages to considered extra

## PACKAGING

Part A : 200 Ltr.; Part B : 200 Ltr.

## SHELF LIFE

12 Months under proper covered storage. In unopened drums away from direct sunlight and dry at 25°C Temperature.

## WARRANTY

Tremco warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Product proven to be defective, and Tremco shall not be liable for any loss or damage.

## BASIC APPLICATIONS INSTRUCTIONS

### Substrate Preparation

All surfaces must be clean, dry and free from contaminants.

### Concrete

Methods such as Vacuum Shot Blasting and mechanical surface preparations means be employed to achieve concrete substrate, which is free from contaminant, laitance and any foreign particles. The surface preparation method must expose blow holes and weak concrete. All surface imperfections must be treated with appropriate Euclid Dural Epoxy Putty and/or epoxy mortars prior to application of the primer.

### Steel Substrate

All Welding seams must have surface finish which ensures that the quality of coating can be maintained. Blast cleaning to SA 2 ½ near white metal finish is recommended before commencing of priming.

### Priming

Following the correct surface preparation, the concrete substrate must be primed using TREMproof® Epoxy Primer. Rate of primer application shall be subject to surface porosity, however typical coverages of 0.25 – 0.35\*\* Lit / Sq.m shall be applicable. For concrete substrates, a broadcast of fire-dried sand is recommended for optimum adhesion to substrate. For steel substrate TREMproof Steel Primer shall be applied at coverage of 0.10 – 0.20 Lit / Sqm.

\*\*Substrate specific

## BASIC APPLICATION INSTRUCTIONS (CONTINUED)

The Primer shall be allowed to touch dry prior to application of TREMproof Micorea S3. Application of Pure Polyurea coating shall be done within 24 hours of Primer Application.

### Spray Equipment

A high pressure, plural component, Spray proportioning heated polyurea reactor shall be used of make GRACO, Wiwa, and Gama and others, as approved by Tremco CPG India Technical department.

### Application

Client must be satisfied that the applicator has sufficient experience and capabilities to undertake application of Pure Polyurea coating as per Method statement of Tremco CPG India. Do not dilute or add any solvents to pre-packed hybrid polyurea coating and primer under any circumstances. Normal recommended minimum thickness of TREMproof Micorea S3 shall be applied to agreed thickness in cross-hatch spray pattern.

In case existing TREMproof Micorea S3 coating is to lapped, which is more than 12 hours old, the existing coating shall be activate with TREMproof Micorea Solvent.

Use of appropriate solvent is recommended to clean the equipment after use.

### Limitations

- Do not apply to any contaminated substrates
- Use with adequate ventilation & PPE
- Ambient Rh shall < 85% & < 3% Dew Point temperature
- Concrete substrate must have achieved 80% of design strength and moisture content below < 5%
- For exposed application, care should be taken to avoid rainfalls within 1 hour of application.
- For Exposed application, the Top Coat (TREMproof TC) shall be applied within 48 hours of application.

## TYPICAL TECHNICAL PROPERTIES

Property	Test Method	Values
Viscosity @25°C, cps	---	
Part A	---	850
Part B	---	1200
Mixing ratio (V/V)	---	01:01
Gel Time, Sec	---	3
Tack Free Time, Sec	---	8
Hardness, Shore A	ASTM D2240	92
Hardness, Shore D	ASTM D2240	45
Tensile Strength, MPa	ASTM D412	>21
Elongation	ASTM D412	>400
Tear Strength, N/M	ASTM D624C	75
Adhesion on Concrete, Mpa	ASTM D7234	>2
Puncture Resistance, N	ASTM E 154	>1000
Hydrostatic Head, Bar	ASTM D 5385	5 (50 m)
WVPT, mg/m <sup>2</sup> /day	ASTM E 96	45

- Please contact us at [india@tremcocpg.com](mailto:india@tremcocpg.com) to confirm the most up-to-date Product Data Sheets.
- NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification & Labelling of Chemicals (GHS) requirements.**