

# SR COAT MTR 50

Textured Hybrid Urethane Acrylate Waterproofing Coating

## PRODUCT DESCRIPTION

MTR 50 is a fast-curing, textured, hybrid urethane acrylate waterproofing coating. MTR 50 is formulated with specially selected polymers to form a highly elastic waterproofing membrane with excellent adhesion to almost all types of surfaces. It is blended with high grade fillers to provide a textured surface which assist the adhesion of tiles and cement screed waterproofing coating.

## RECOMMENDED APPLICATION

MTR 50 can be applied for the following:

- Waterproofing of new or existing bathrooms.
- Protective coating over buried concrete structures.
- Waterproofing of planter boxes.
- Waterproofing of new or existing swimming pools, kitchens, balconies and fountains.

## PRODUCT FEATURES

- Good flexibility.
- Excellent mechanical properties.
- Resistant to UV degradation.
- Excellent adhesion on damp substrates.
- Good resistance to the ponding water.
- Low VOC: non-hazardous and environmentally friendly
- Excellent adhesion to concrete, BUR, PVC, EPDM, TPO [aged].
- Fast curing time (60 mins at 25°C). It can be subjected to foot traffic and external weather conditions after the coating achieves its initial curing.

## APPLICATION INSTRUCTION

**Surface Preparation:** Concrete Surface: Loose and unsound concrete should be chipped off and repaired with a suitable polymer-modified repair mortar. Sharp edges and protrusions should be leveled off. Use of a suitable industrial-grade detergent or degreasing compound is recommended to remove all contaminants like oil, grease, wax etc. from the substrate.

Metal Surface: Traces of rust shall be removed. Completely rusted surfaces shall be replaced. Ensure all joints are riveted properly.

PU Foam Surface: Clean the surface of any accumulated dust and remove all loose particles.

Bitumen Membrane: Clean the surface of any loose mineral slates, accumulated dust, and oil stains.

**Mixing:** MTR 50 is a two-component product. The contents of Part A should be mixed for at least one minute before pouring Part B into it. Mix thoroughly for a minimum of 3 minutes. It is recommended to use a slow speed double-shaft mixer.

**Application:** Application procedures may vary slightly depending upon the site conditions. General recommended guidelines for the application of the coating systems are as follows in 2 or 3 coats: -

All critical areas like pipe penetrations, joints and vertical abutments shall be treated prior to the application of general areas. Apply the first coat of MTR 50 with a brush or roller over the substrate and embed a reinforcement mat [225 GSM fiberglass mat]

whilst the coating is still wet. Allow it to dry. The Average coverage rate of material is 0.5 -1 L/m<sup>2</sup>. Apply a second coat over the previous layer at an average coverage of 0.5 - 0.75 L/m<sup>2</sup>. Allow this to dry. Finally, a third coat is applied at right angles to the first & second coat. Average coverage for final coat is 0.5 L/m<sup>2</sup>.

## STORAGE

The shelf life is up to 12 months when stored as per recommendations and in unopened conditions. Store away from direct sunlight.

## TECHNICAL DATA

| Physical Properties                     | Test Standard | Result      |
|-----------------------------------------|---------------|-------------|
| Color                                   | -             | Black       |
| Mixed Density, (g/L)                    | ASTM D1475    | 1.10 ± 0.10 |
| Solid Content, (%)                      | ASTM D1353    | 60 ±2       |
| Pot Life (Hrs)                          | -             | 5 - 6       |
| VOC, (g/L)                              | USEPA 24      | <10         |
| Touch dry time (mins) at 25°C           | -             | 30          |
| Initial Cure time (mins) at 25°C        | -             | 60          |
| Full Cure time (days) at 25°C           | -             | 3           |
| Tensile strength, (N/mm <sup>2</sup> )  | ASTM D412     | 3           |
| Elongation, (%)                         | ASTM D412     | 250         |
| Tear Strength, (N/mm)                   | ASTM D624     | 10          |
| Solar reflectance, (%) (White)          | ASTM E1549    | 95          |
| Shore A Hardness                        | ASTM D2240    | 45          |
| Water Vapor transmission, (perms)       | ASTM E96      | 6           |
| Adhesion strength, (N/mm <sup>2</sup> ) | ASTM D4541    | 2.5         |
| Crack bridging ability, (mm)            | ASTM C836     | 3           |
| Application temperature, (°C)           | -             | 5 to 45     |
| Service temperature, (°C)               | -             | -5 to 70    |

All values are subject to 5-10% tolerance

## COVERAGE

0.75 -1 L/m<sup>2</sup>/Coat

## PACKING

20 L Kit (Part A: 19 L. Pail, Part B: 1L)

## CLEANING

Clean all the tools with water immediately after use. Hardened materials can only be removed mechanically.

## HEALTH & SAFETY

Caution should be exercised while applying the product as it is with any other construction chemical. Protective gloves and safety glasses should be used when handling these products. If accidental eye contamination occurs, wash thoroughly with plenty of water and seek medical advice. If contact with skin occurs, it must be removed before curing takes place.

### Disclaimer:

All technical data mentioned in this product data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. Please note that because of specific local regulations the performance of this product may vary from country to country. Please consult the local product data sheet for the exact description of the application fields. The information on this datasheet is subject to change without notice and should not be used for writing specifications. For more information on specific applications, please contact Smart Insulation Finishing System LLC. The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience as materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted based on the contents of this data sheet or any verbal advice given unless there is a case of willful misconduct or gross negligence on our part. This technical data sheet supersedes all earlier editions relevant to this product. SIFS reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned. Copies will be supplied on request.



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