Technical Data Sheet - TDS

CHEMCON

RocShield MT55

Highly Thermal Efficient, Energy – Saving Flexible Hybrid Urethane Waterproofing Coating

PRODUCT DESCRIPTION

RocShield MT55 is a two-component fast curing, hybrid Urethane waterproofing coating, flexible, has excellent adhesion on all substrates and can also be applied on wet and damp substrates. **RocShield MT55** has high emittance and reflectance as well as a very low conductivity value which reduces thermal shock and heat penetration there by keeping roofs much cooler in hot summer weather

APPLICATION AND USAGE

RocShield MT55 is designed for application to roofs, terraces, balconies, domes, sandwich panels, corrugated sheets, Swimming pools, Water reservoirs, existing Bitumen membrane. On top of PU insulation, Wet areas, water features like fountains. Metal profile sheets, Retaining walls, Lift pits and buried concrete structures etc.

ADVANTAGES

- Solar reflective, Good Flexibility
- Single component. Easy to apply by brush, roller or airless spray.
- Planter boxes, Good resistance to the ingress of water and vapor, excellent adhesion on wet and damp substrates.
- Low VOC: Non-hazardous and environmentally friendly, durable: Resistant to UV degradation. High mechanical properties.
- High resistance to abrasion, Fast curing time, can be subjected to foot traffic and external weather conditions after the coating achieves its initial curing

DIRECTIONS FOR USE

Surface Preparation: Ensure that surfaces are clean, sound, stable and free of dirt, dust, grease and any other contaminants. Remove any traces of algae and fungal growth with a wire brush, treat with a fungicide solution and wash down with clean water. Old concrete may require grit blasting to remove old coatings or membranes

New concrete can be coated once the initial water-curing period is over. Alternatively if RocCure CL is used coating may take place earlier.

Priming: Prime porous surfaces with RocBond AR, -

, RocFloor Silicate Watchpoint: Do not apply RocShield MT55 when rain is likely as full resistance is only achieved in the fully cured state.

Mixing: Mix part A and part B separately for 1 minute using a slow speed drill fitted with a paddle. Then add Part B into Part A and mix thoroughly for 2 - 3 minutes to achieve uniform consistency. Ply immediately after mixing

Application: On Concrete surfaces apply RocShield MT55 onto the surface in one direction taking care not to scrub the material or brush unevenly. Allow to dry and inspect for imperfections that should be made good prior to application of second or any subsequent coats. Apply 3 coats on corners and penetration areas. Embed a Fabric mesh onto the wet coating.

Metal Surface: RocShield MT55 on metal surfaces shall be applied in 2 coats. Apply each coat @0.75lt/m². The 2nd coat application shall be done only after the 1st coat dries off.

Across joints it is recommended to bridge the joint and to install a closed cell polyethylene strip.

Cleaning Tools: Wash tools in water immediately after use. If product has set, remove with a knife and immerse in water

COVERAGE

Typical recommended thickness Concrete Surfaces: RocShield MT55 consumption will be 1.5-2. Ltr / m² for a DFT of 1 to1.5 mm. D.F.T.

Typical recommended thickness Metal Surfaces: RocShield MT55 consumption will be 1.5Ltr / m² for a DFT of approx..1 mm. D.F.T.

PACKING & STORAGE

RocShield MT55 is supplied in 5kg & 20kg units and is available in white and grey. Store in shaded warehouses away from heat, humidity or moisture. Shelf life will be 12 months.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention.

TYPICAL PROPERTIES

Color	Grey & White
Density ASTMD 1475	1.15 +/- 0.05 @ 25°C.
Solar reflectance, [%]	Greater Than 80 ASTM C 1549
Emissivity, [%] BS EN 12898	Greater Than 85
Tensile Strength:	➢ 4. ASTM D 412
Elongation, [%]:	Greater Than 300 ASTM D 412
Tensile Strength after UV ageing @ 1000hrs, [N/mm2]	Greater Than 1.5 ASTMD 2370
Elongation afterUV ageing@ 1000hrs, [%]	Greater Than 180 ASTM D 2370
Water swelling resistance, [%]	Less Than 8 ASTM D 471
Adhesion [Dry] concrete/ steel, [pli]	Greater Than 3 ASTM C 794 ASTM D 903
Adhesion [Wet] concrete/ steel, [pli]	Greater Than 2 ASTM C 794 ASTM D 903
VOC, [g/L]	Less Than 50 ASTM D 3960/ ASTM D 2369
Water vapor transmission	Less Than 2 ASTM E 96