

APPLICATION GUIDE



ROKOAT TechShield Impermeable Insulation

Overview

This is designed for Professional use only.

ROKOAT reserves the right to remove all warranties and guarantees on this product if not applied according to this guide.

Safety Notes

Use in well ventilated areas. Use vapour filters on masks.

Protective gloves and safety glasses must be worn at all times.

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet (MSDS). This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

Application Methods

Brush / Roller

Spray

Micro-Fibre

Sponge

Surface Preparation

Surfaces should be free from loose rust, mill scale, paint, grease, oil, loose cement or any other film forming foreign material.

Use any means necessary to achieve a clean tight surface – from wire brushes to high-pressure water sprayers.

Optimal results are achieved on dry surfaces however TechShield Impermeable Insulation can be used satisfactorily if the surface is damp or wet. Pooling water should be removed.

Primer is NOT required for metal surfaces.

Mask-up and / or protect surfaces that are NOT to be treated. TechShield Impermeable Insulation has extreme adhesion properties and will require a high level of abrasive to remove.

Product Preparation

Allow 1 hour preparation time.

1. PRIOR to combining Parts A & B, MECHANICALLY mix individual pails for 2 minutes.
2. Combine in a 4 parts B to 1 part A ratio.

APPLICATION GUIDE



3. MECHANICALLY mix using a power mixer for around 5 minutes until ALL streaks and lumps disappear and the mixture has a uniform colouring & consistency.
4. NOTE : Allow mixing blade to remove/mix product on the sides and bottom of container.
5. Stand for 45 minutes to allow product to ingest.
6. If using thinners* add before application.

*Use of thinners is NOT recommended. Will increase possibility of sag, extend curing time and reduce the dry thickness of the product. Multiple applications may be required to achieve desired protection levels. If to be used, use MEK at a maximum 10%.

Application Methodology

Airless spray is the most efficient for large projects. Roller / Brush for detailed work such as edge termination, filling of voids, pinholes and small cracks.

Example equipment: Graco 5900 with 0.021 to 0.031 tip. 3000PSI capability with reversible self-cleaning tip. REMOVE all filters from gun and hose including the bund hose.

ATTENTION : The coating MUST cover the maximum height / peak of any rust. Ensure thickness is achieved via number of coats.

Spraying apply at 337µm (13 MIL), which will dry to 254µm (10 MIL) at a rate of 2.95 sq metres / litre (120 sq feet / US gallon).

NOTE : Any overspray and equipment must be cleaned immediately with MEK.

Curing & Secondary Coatings

Apply secondary coatings when previous coating is tacky to the touch (1 – 2 hours at 25-28°C (80°F)).

Drying time : 1 – 2 hours at 25-28°C (80°F).

Initial curing time : 8 hours at 25-28°C (80°F).

Complete cure : 3 days at 25-28°C (80°F).

NOTE : Approximate pot life after mixing is 4 - 6 hours at 25-28°C (80°F).

APPLICATION GUIDE



Properties

Colour	White
Viscosity	13060 centipoise @ 75°C @ 2.5 RPM
Percent of Solids	75%
Odour (liquid)	Naphthalenic
Odour (cured)	None
V.O.C.	<5%
RoHS	Compliant
Coefficient of Friction	N/A
Thermal Stability (cured)	454°C
Thermal Conductivity	0.0139 Btu inch/h ft ² °F / 0.002 W/m/K
Conical Bond	N/A
Pencil Hardness	Shore A Hardness 85
Cross cut adhesion	210 pounds / sq. inch
Specific Gravity	N/A
Average applied film thickness (Application Specific
Estimated Coverage Rate (Dry)	11.1 sq metres / US Gallon @ 254µm
Transfer to surrounding material	N/A
Permeability	0.7 perms
Dry (Tack to touch)	1 – 2 hours at 25-28°C (80°F)
Semi-cured (time-ambient)	8 hours at 25-28°C (80°F)
Full Cure Time (ambient)	3 days at 25-28°C (80°F)
Cleaning	MEK

ASTM Test Battery

ASTM B117 500 hour Salt fog test – Passed

ASTM 518 Thermal Conductivity 0.0139 Btu(in)/(h)(ft²)(F), metric 0.002 w/m/K - Excellent

ASTM D-2240 Hardness 85 Shore Durometer

ASTM E108-91A UBC32-7 Class A Fire Rated

ASTM E 84 Class A Fire Rated

ASTM D-638 Tensile Strength 1393 PSI

ASTM E-96 Water Vapour Transmission 0.7 perms

ASTM G-53 500 hour accelerated weathering test, bend double with no cracking, highly flexible

ASTM 1640, D-92, D-1644A, D-2196, D-696, D-570, C-836, D-1652, D-1259

Flexibility is retained in sub-zero conditions (down to -97°C)