Technical Data Sheet

RTT Top Coat

Acrylic, highly flexible membrane top coat

DESCRIPTION

RTT Top Coat is a highly flexible elastomeric waterproofing membrane designed for use on roofs, decks and balconies. Its high viscosity formulation is designed for application on both vertical and horizontal substrates and is well suited to application by HVLP/Airless spray equipment.

RTT Top Coat dries to a semi gloss finish and reflects heat to reduce thermal heat transmission. It does not soften or attract dirt/stains and has excellent chemical resistance and durability. It may be easily cleaned with mild detergents and water and includes algaecides to reduce mould and algal growth.

RTT Top Coat is designed for long term outdoor exposure and remains flexible under extreme elongation and under constant exposure to moisture. It is UV resistant and can be used in exposed areas without embrittlement.

RTT Top Coat is a harder coating and will withstand moderate foot traffic. It is suitable for application over a wide range of substrates including (following application of RTT Sealant):

- Concrete
- Masonry
- Fibre-cement sheeting
- Plaster board
- Brick
- Render
- Plastics
- Metal
- Timber

RTT Top Coat may be applied to damp surfaces although freedom from surface water and continual dampness is essential for sufficient curing to occur. Damp surfaces will increase drying/curing time.

USES

RTT Top Coat can be used on any surface requiring a waterproof coating but is mainly used for:

- Roofs
- Balconies
- Decks

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FEATURES

- Vulcanised bonding to RTT Sealant
- Safe to use
- Excellent water resistance
- Self cross linking polymer for durability
- Highly flexible (accommodates movement and minor cracking in substrate)
- UV stable – designed for long term outdoor exposure
- Water based for easy application and cleanup
- Suitable for application on horizontal or vertical surfaces
- Suitable for interior or exterior use
- Permanently flexible, excellent resistance to embrittlement

TECHNICAL DATA

Number of Coats:	1 - 3
Coverage Rate:	2 – 3m^2 per litre (dependant on substrate)
Drying Time:	Recoat 1-2 hours (at 24^oC)
Dry:	6 – 12 hours (at 24^oC)
Fully Cured:	Up to 2 days RTT Top Coat is dry when it forms a firm skin.
Cleanup:	Before curing – with water After curing – solvents
Shelf Life:	12 – 18 months in uncontaminated container kept well sealed and out of direct sunlight. Viscosity may increase during extended storage or in high temperatures. Stir with an electric mixer until homogenous should thickening occur. Store out of direct sunlight below 38^oC
Application Temp:	3^oC - 40^oC
Application:	Brush, Roller or HVLP/Airless Spray

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APPLICATION INSTRUCTIONS

Surface Preparation

All surfaces should be clean, sound and free from dry or loose material. Check for presence of waxes, mould release or bond breaking agents, oils or other contaminants than may affect adhesion before application. Given the wide variety of substrates and site specific conditions, it is advisable to check adhesion prior to job commencement. Moulds, lichen or fungal growth should be treated with a suitable algaecide or if unavailable with a dilute bleach solution (1 part household bleach to 2 parts water) to kill any spores. Leave the bleach solution in contact with the surface for approx 10 minutes then liberally rinse with clean water and allow to completely dry. Masonry should be flush pointed. Make good any defects in surfaces. Remove any dags, high points or protrusions prior to application. Any laitance in concrete surfaces should be removed with wire brush or by grit blasting.

Priming

Porous, friable or dusty surfaces should be coated with RTT Sealant prior to application of RTT Top Coat to ensure adhesion.

Movement Joints

All expansion and movement joints between differing substrates should be sealed with a suitable sealant. Reinforcement with RTT reinforcement cloth is recommended where movement is possible. Allow pre-treatments to dry overnight before general application of the membrane.

Corners

Apply a polyurethane sealant or concrete render, in accordance to the manufacturer's instructions and finish to form a solid, coved or 45^{o} fillet extending at least 8mm on to the adjacent surfaces. Once the sealant is dry apply the membrane directly over the sealant and on to the adjacent surfaces. For additional protection RTT reinforcement cloth can be applied over the sealant before application of the membrane.

Cracks and Gaps

Cracks and gaps should be pre-filled and sealed with an appropriate elastomeric sealant, preferably a polyurethane sealant, and allowed to cure. For additional protection RTT reinforcement cloth can be applied over the sealant before application of the membrane. Visible cracks in the substrate should be pre-treated with a flexible polyurethane sealant or additional coats of the membrane. Larger cracks should be routed out to form a 'V' and then filled and sealed with a polyurethane waterproof joint sealant. The sealant should be finished slightly proud of the surface and allowed to cure. Once dry, apply a thick coat of the membrane extending at least 50mm either side. Allow to dry and then apply the membrane to the entire surface.

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Sheet Joins

Timber or FC sheet joins should ideally be fully coated with a polyurethane sealant prior to butting together and fixing. All joins should be fully filled and finished flush or slightly proud of the surface. Once dry, apply a thick coat of the membrane extending at least 50mm either side. Allow to dry and then apply the membrane to entire surface. For additional protection a polyester backed reinforcing bond breaker tape can be applied over the sealant before application of the membrane.

Waste Outlets, Penetrations and Angles

Floor wastes should be rebated in to the floor to allow water to readily drain and its perimeter edges and gaps completely sealed with a polyurethane sealant. Plastic or metal angles should be securely embedded in to a continuous, gap free bed of a polyurethane sealant / mastic.

Application Method

Apply by brush or spray to obtain a consistent and even coating. RTT Top Coat should be applied in two coats applied at right angles to result in a smoother finish and faster curing times. The membrane should be applied to at least 1mm dry film thickness. If the first coat does not result in a dry film thickness of at least 1mm, then a subsequent coat(s) will be required. Coat all areas liberally working the product into any voids or depressions. Where reinforcing fabric is to be used apply first coat to the required area and while still wet embed the fabric ensuring no air is trapped. Apply a second coat of the membrane at right angles to the previous application. Allow to dry before applying screeds, tiles, or any other coverings. If exposed to weather, do not apply if rain is imminent (within one hour at 24^{o}C), or if the temperature is below 5^{o}C or above 40^{o}C. Applying the membrane during cold weather, where there is limited or no air flow over the membrane may result in the membrane failing to dry. In enclosed areas introducing air flow by using a fan will assist in curing. RTT Top Coat is not designed for use in areas where permanent immersion is likely (E.g. ponds or tanks) or in situations where hydrostatic pressures are to be expected, such as basements and below grade construction.

TRANSPORT / STORAGE

Available Sizes:	5L, 15L, 20L, 205L, 1000L
Weights:	5.5kg, 16.5kg, 22kg, 225kg, 1100kg
Dangerous Goods Class:	N/A

DISCLAIMER

Customers are advised to consider the information in this data sheet in the context of how the product will be used, including surfaces and any other products used. The information provided in this data sheet represents our best scientific and practical knowledge. Any advice, information or assistance provided by RTT Sealant in relation to its products is given in good faith, however is provided without liability or responsibility. Due to the wide variety of site conditions we are unable to assume liability for any loss that may arise from the use of our products. The user is responsible for checking the suitability of products for their intended use.