Technical Data Sheet

Thermal Coating

Liquid Rubber® DIY

Easy Waterproofing Solutions

DESCRIPTION

Liquid Rubber DIY Thermal Coating is a highly flexible acrylic coating designed for use on roofs, decks and balconies. It is ideal for extreme weather conditions and its high viscosity formulation is designed for application on both vertical and horizontal substrates. It is well suited to application by Graco™ airless spray equipment (recommended).

Thermal Coating 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.

Thermal Coating 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.

Thermal Coating 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 LRDIY Waterproof Sealant and Etch Primer/Sealer):

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

Thermal Coating 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.

FEATURES

- Safe and easy to use
- Excellent water resistance
- Self cross linking polymer for durability
- Highly flexible (accommodates movement in membrane and 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

USES

Liquid Rubber DIY Thermal Coating can be used on for:

- Roofs
- Sheds
- Balconies
- Decks

TECHNICAL DATA

Number of Coats:	2 – 3+
Coverage Rate:	1.5 – 2m^2 per litre (dependant on substrate)
Recoat Time:	1 – 2 hours (at 24^{o}C)
Dry:	6 – 12 hours (at 24^{o}C)
Fully Cured:	Up to 2 days Thermal Coating is dry when it forms a firm skin.
Cleanup:	Before curing – 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^{o}C
Application Temp:	3^{o}C – 40^{o}C
Application:	Brush, roller or airless spray

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 LRDIY Waterproof Sealant and suitable primer prior to application of Thermal Coating to ensure adhesion.

Movement Joints
All expansion and movement joints between differing substrates should be sealed with a suitable sealant. Reinforcement with fabric 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/render is dry, apply the membrane directly over the sealant and on to the adjacent surfaces. For additional protection, LRDIY GeoTextile can be applied over the area with the 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 LRDIY GeoTextile can be applied over the sealant with the 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.

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, roller or airless spray to obtain a consistent and even coating. Thermal Coating should be applied in two coats applied at right angles to result in a smoother finish and faster curing times. The finished coating should be at least 0.5mm dry film thickness (DFT). If 2 coats do not result in a DFT of at least 0.5mm, then a further coat will be required. Coat all areas liberally, working the product into any voids or depressions. Apply each coat at right angles to the previous coat. If exposed to weather, do not apply if rain is imminent or if the temperature is below 5^{o}C or above 40^{o}C. Applying Thermal Coating during cold weather or where there is limited or no air flow over the surface may result in the coating failing to dry. Introduce air flow by using a fan to assist in curing. Thermal Coating 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.

CAUTION

Store in a cool dry place out of direct sunlight. Keep out of reach of children. Avoid storage below 5°C. Please consult the product SDS before using Liquid Rubber DIY Thermal Coating.
THIS PRODUCT IS NOT SUBJECT TO CONTROLLED PRODUCTS OR DANGEROUS GOODS REGULATIONS.

TECHNICAL ADVICE

Call Liquid Rubber DIY:	1300 2 LRDIY (1300 257 349) or 0423 743 423
Email Liquid Rubber DIY:	info@liquidrubberdiy.com
Available Sizes:	4L, 15L, 205L
Weights:	5kg, 18kg, 245kg

DISCLAIMER