DATASHEET

HydroThane 0660

Two component Polyurethane based Waterproofing Coating

PRODUCT DESCRIPTION:

HydroThane waterproofing is a liquid applied 2-component elastomeric, high performance coating based on polyurethane chemistry that cures by reaction to give a monolithic film which is rubbery and elastic. It contains leafing pigments with reinforcing properties. The membrane can be applied by brush, spray (with airless spray equipment) or troweled.

HydroThane cures to a permanently flexible seamless crack-bridging membrane which is not adversely affected by extremes of temperatures. It does not crack at low temperatures or suffer thermal blow at elevated temperatures

USES:

- Concrete Roofs, Podiums, Landscaped Terraces
- Metal roofs
- Water Tanks, Fire Water Tanks
- Prefabricated Concrete Structures
- Flyover, Bridge deck
- Basement retaining wall

HydroThane elastomeric membrane is designed to bond to a wide range of substrates such as concrete, asphalt, slate, tiles, asbestos, brick, felt, wood glass and metals with suitable primers. It is essential that substrate and structures for application of waterproofing are sound and are properly prepared for receiving the waterproofing membrane.

General Introduction:

HydroThane offer the following benefits:

- High temperature stability.
- Low temperature flexibility down to –15 degree.
- Dirt pick-up resistance.
- Excellent adhesion to polyurethane foam and many other substrates.
- Easy application by spray, brush, or roller-thus lowering application costs.
- Low toxicity and odour.

Tensile Strength and Elongation

Thermal movement of some structures requires high tensile strength and elongation as well. The tolerance for movement of these coatings is essential due to the dynamic nature of a substrate which expands and contracts due to climatic conditions and the shifting and settling of the foundation.

These properties also give property-formulated elastomeric coating the needed flexibility and elasticity to withstand impact from foot or vehicle traffic and other abuse without rupturing.

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Stop Leaks

HydroThane is designed for achieving absolute water tightness of a structure.

TYPICAL CHARACTERISTICS:

PROPERITES	VALUES
Nature	2 Component Polyurethane
Colour	Blue / Gray
Pot Life at 23°C	25-30 minutes
Hard dry time at 30°C	7 to 8 hours
Complete curing time at 30°C	7 days
Recoat ability time at 30°C	4 to 5 hours
Finish	Smooth, Matt, Rubbery
Coverage	1.5 kg/m^2 for 1.0 mm thickness depending on substrate conditions.
Tensile Strength (ASTM D412)	> 6 MP @ 25 ^{o}C
Shore Hardness A	>55
Elongation (ASTM D412)	>600% ± 10% @ 25 ^{o}C
Recommended Thickness	Min. 1.2 mm in 2 to 3 coats depending upon the substrate
Composite Packing	20kg

Colours

HydroThane is stocked in Blue and Gray colour.

APPLICATION GUIDELINES:

Surface Preparation

Grind the surface with power grinder to create minimum CSP2 to CSP3 profile for proper surface bonding of primer and top coat.

Surface preparation and use of suitable primer is very important while applying HydroThane. All surface must be clean and dry and free of any dust, dirt, oil, surface chemicals or other chemicals or other contaminants that may interface with optimum adhesion of primer. All loose gravel, if present, shall be removed by power sweeping and/or vacuuming. Most prefer way to remove dust is by vacuuming. Remaining gravel shall be power spud to achieve the smoothest surface possible. Any unsound areas in the roof, i.e. blisters, delamination, deterioration, moisture saturation, severe corrosion, sharp projections, ridges, etc. shall be repaired or replaced.

Low areas that hold excessive ponding water must be brought into conformance by installing additional drains or adding additional slope to the existing drains.

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Application of Primer

Apply Multithane Primer 21 to well-prepared surface at 100 gm/m² or 40 µm thickness. Allow primer to dry for 2-4 hours. Surface moisture should be < 5%. If moisture content is more than 5% used **Aquablock Primer**.

Mixing

Stir Component A separately for 5 minutes to get homogenous material (Since material contains fillers, it may get settled in the bottom of container). Now pour all content of this bucket into Part /component B. Never add Component B to component A. Mix component A and B together for 5 minutes to get uniform mix and colour. Use a power mixer capable of uniformly mixing the entire container prior to use. Reducing the mixture is not recommended, as it affects the coatings setting and ability to achieve a heavy film build with excellent vertical hold and hide.

Application

Reinforce all moving cracks, seams, splits, control joints, vertical/ horizontal interfaces, roof termination pints, openings, transition areas, around the base of all vents pipes and other protrusions, as well as around HVAC units and other roof mounted equipment with Fibrecon P55 or P140 Mesh, , a polyester reinforcement fabric, embedded in to HydroThane.

All preparation materials shall be allowed to dry thoroughly prior to application of the HydroThane coating (Including primers).

METHOD IN BREIF

1. Remove all loose material by vigorous brushing with wire brush or sand blasting or power grinding.
2. Allow surface to dry thoroughly and any moisture contained in the structure to evaporate. **MULTITHANE® Primer 21** and HydroThane should not be applied to damp substrates. For damp surface, use **Aquablock Primer**, an epoxy based primer and check the moisture content. It should be less than 5%.
3. Fill cracks and voids with a Polyurethane sealant such as **Multiflex PU** series.
4. Prime with MULTITHANE® Primer 21 (6-10 m²/kg) depending on substrate texture and porosity which cures to a slightly tacky film in 2- 4 hours. Overcoat with HydroThane as soon as possible after this time and certainly within 4 hours. If delay exceeds this, slight sanding on primer or re-priming is advised.
5. Apply HydroThane at a maximum film thickness of 0.6 mm per coat. Minimum two coats are advised. You can used brush, roller, trowel or spray machine or in combination to get desired result.
6. In the case of two coat application the first coat should be touch dry in 4 - 5 hours (in some conditions this might be delayed) and the second coat should be applied after that to ensure good adhesion. Make sure that direction of first coat is always perpendicular to second coat

7. Day work joints: Where application extends over more than a working day, an overlap of 150 mm. should be used
8. Aromatic hydrocarbon solvent should be used to clean equipment.

STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C.

WARRANTY

Multichem warrants **HydroThane** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **HydroThane**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **HydroThane.**

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.

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