DATASHEET

ULTRATHANE 0950

Hybrid Polyurea based Elastomeric Waterproofing Coating

INTRODUCTION:

ULTRATHANE 0950 elastomeric membrane is a liquid applied 2-component coating based on hybrid polyurea chemistry that cures by reaction to give a continuous film, which is rubbery and elastic. It contains leafing pigments, with reinforcing properties. **ULTRATHANE 0950** is a very high solids coating designed to give a high-build film. It can be brush or spray applied (with airless spray equipment) or even troweled.

ULTRATHANE 0950 cures to a permanently flexible seamless membrane. Since it is elastomeric, **ULTRATHANE 0950** is not adversely affected by extremes of temperature; consequently, it does not crack at low temperatures or suffer thermal blow at elevated temperatures.

ULTRATHANE 0950 white is more suited for a roof/terrace which is exposed to UV rays although it has low color stability. For additional protection use **MULTITHANE Expo** for at 120 to 250-micron thickness over **ULTRATHANE 0950**.

USES:

- Cured concrete substrate e.g. roofs (Flat or sloping), balconies, and decks
- All metal roofs
- All prefabricated Concrete Structures
- Terrace, Podium, Water Tanks, Terrace Garden, Flyover, Bridge deck
- Basement and retaining wall
- Crack bridging membrane

ULTRATHANE 0950 elastomeric membrane is designed to bond to many types of substrate particularly those commonly used as roofing, such as felt, asphalt, slate, tiles, asbestos, concrete, brick, wood glass and metals with appropriate primers. However, it is essential that substrates and structures are properly prepared and stable. Surfaces previously treated with silicone-based materials will be difficult to overcoat.

BENEFITS:

DATASHEET

ULTRATHANE 0950

Hybrid Polyurea based Elastomeric Waterproofing Coating

ULTRATHANE 0950 offer the following benefits:

- High temperature stability.
- Low temperature flexibility down to (–15) degrees.
- 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.

Stop Leaks

ULTRATHANE 0950 stops most small holes in the substrate by application directly to the surface substrate. It is designed for complete waterproofing of substrate.

Colors available:

ULTRATHANE 0950 is stocked in white, light grey, medium grey and green.

Warranty:

ULTRATHANE 0950 warranty available in five (5), ten (10) and fifteen (15) year periods. The warrantor guarantees the installations against leaks caused by normal weather. Refer to individual warranty documents for additional information.

DATASHEET

ULTRATHANE 0950

Hybrid Polyurea based Elastomeric Waterproofing Coating

TECHNICAL DETAILS:

PROPERTIES	RESULTS
Nature	2 Component Ready to Use Material
Colour	White / Gray/Other Selected Colours
Pot Life at 23°C	30 minutes
Hard dry time at 30°C	8 to 10 hours
Complete curing time at 30°C	7 days
Recoat ability time at 30°C	4 to 5 hours
Finish	Smooth and matt
Coverage	1.2 kg/m^2 (as per roughness or porosity of surface) for 1.0 mm thickness
Tensile Strength (ASTM D412)	> 9 MPa @ 25 °C
Shore Hardness A	>55
Elongation (ASTM D412)	> 500% @ 25 °C
Recommended Coats	2 to 3 coats depending upon the substrate
Packing	5kg, 10kg, 20kg

APPLICATION DETAILS:

Surface Preparation

Surface preparation and use of suitable primer is very important while applying **ULTRATHANE 0950**. All surfaces 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. 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.

MULTICHEM GROUP | 510, Exim Link, MG Link Road, Nahur (W), Mumbai-40007 Phone No.: 91-9323890195/9619091025, e-mail: info@multichemgroup.net
www.multichemgroup.net

ULTRATHANE 0950

Hybrid Polyurea based Elastomeric Waterproofing Coating

Application of Primer

Apply **Multithane Primer 21** to a well-prepared surface at 100 gm/m^2 or 40 µm thickness. Allow the primer to dry for 2-4 hours. Surface moisture should be < 5%.

Mixing

Mix components A and B together to get a uniform mix. 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 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 vent's 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 **ULTRATHANE 0950.**

All preparation materials shall be allowed to dry thoroughly prior to application of the **ULTRATHANE 0950** coating (Including primers).

METHOD IN BRIEF:

1. Remove all loose material by vigorous brushing with wire brush or sand blasting or power grinding.
2. Treat any remaining fungal growth with proprietary fungicide such as **MultiKleen** as recommended.
3. Allow the surface to dry thoroughly and any moisture contained in the structure to evaporate. **MULTITHANE Primer 21** and **ULTRATHANE 0950** should not be applied to damp substrates. For a damp surface, use **Vapourgard®**, an epoxy-based primer and check the moisture content. It should be less than 5%. Alternatively use **Aquablock Primer**.
4. Fill cracks and voids with a mastic sealant such as **Multiflex PU**.

MULTICHEM GROUP | 510, Exim Link, MG Link Road, Nahur (W), Mumbai-40007 Phone No.: 91-9323890195/9619091025, e-mail: info@multichemgroup.net
www.multichemgroup.net

5. Prime with **MULTITHANE Primer 21** (6-10 m^2/kg) depending on substrate texture and porosity which cures to a slightly tacky film in 2- 4 hours. Overcoat with **ULTRATHANE 0950** 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.
6. Apply **ULTRATHANE 0950** at a maximum film thickness of 0.5 mm per coat. Minimum two coats are advised.
7. In the case of two coat application the first coat should be touch dry in 6 hours (in some conditions this might be delayed) and the second coat should be applied after 6 hours to ensure good adhesion.
8. Day work joints: Where application extends over more than a working day, an overlap of 150 mm should be used.
9. Aromatic hydrocarbon solvent should be used to clean equipment etc.

STORAGE:

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

WARRANTY

Multichem warrants **ULTRATHANE 0950** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labour costs and other costs or expenses associated with the removal or installation of **ULTRATHANE 0950.**

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 authorises any person to assume for Multichem any liability in connection with the sale and installation of **ULTRATHANE 0950.**

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

MULTICHEM GROUP | 510, Exim Link, MG Link Road, Nahur (W), Mumbai-40007 Phone No.: 91-9323890195/9619091025, e-mail: info@multichemgroup.net
www.multichemgroup.net