

# CHRYSO<sup>®</sup> ELASTOTHANE

## Liquid Applied Polyurethane Based Elastomeric Protective / Waterproofing Coating



### Description

**CHRYSO ELASTOTHANE** is a single component, bitumen / coal tar free high solid content liquid applied elastomeric polyurethane resin based cold applied coating system. Ideally suited for waterproofing of roofs, terraces, walls, basement conforming to ASTM C-836-95 & ASTM C – 898-95

### Indicative Characteristics

Appearance of cured film	Black, Grey
Specific Gravity at 27°C	1.3±0.1
Solid content, % (w/w)	>90
Touch dry at 27°C, 70% RH	4-6 hours
Application Temperature, °C	2-40
Elongation at break at 7 days, %, ASTM D412	>500
Tensile Strength, 7 days, N/mm <sup>2</sup> , ASTM D 412	>2.2
Initial cure at 27°C, for pedestrian traffic	Within 24 hours
Crack Bridging Capacity, mm	3mm (Minimum)
Full cure, days	7
Theoretical Coverage (WFT)	1.3 kg/mm/m <sup>2</sup>

### Domains of Application

**CHRYSO ELASTOTHANE** is formulated to provide an easy, fast and sure system for waterproofing and protecting of new and old roofs, terraces, podiums, basement, swimming pool, planters, etc.

### Method of Application Surface Preparation

The surfaces to be applied should be dry, cleaned and free from oil and grease. Loose particles should be removed and damaged spots repaired first. Cracks should be filled up using CHRYSO ARMOURCRETE cement MORTAR / epoxy mortar. CHRYSO BITCOTE /BITUTHANE –PU/ BITUTHANE- BI is recommended to improve the adherence of **CHRYSO ELASTOTHANE** Membrane on the substrate as a primer coat. However, **CHRYSO ELASTOTHANE** can be directly used over cleaned, dust free, sound concrete surface. Ensure the surface moisture is not more than 8% prior to application of coating / primer.

### Mixing

Stir well before using of **ELASTOTHANE**.

### Application

**CHRYSO ELASTOTHANE** can be applied by brush, roller. Alternately can be applied by a suitable spray gun or spread by a rubber squeegee. Additional layer must only be applied when previous layer become dry Recommended consumption of product should be followed. For multiple coats allow sufficient drying application (time gap between two coats : 8-12 hours) between coats. Wherever possible apply coats at right angles to each other to achieve even thickness of coating. Recommended film thickness should be 700 microns to 1000 microns for normal waterproofing using 1.0-1.3kg material. Higher thickness (1000 microns to 2000 microns) of coating is also used depending on site requirement.

### Application Sequence

1. Surface preparation – Moisture Checking & grinding.
2. Application of Primer.
3. Application of **CHRYSO ELASTOTHANE** in two coats,
4. Protection of **CHRYSO ELASTOTHANE** coating and joint sealing.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website [www.chryso.com](http://www.chryso.com)

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# CHRYSO® ELASTOTHANE

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### Advantages

- Can be applied by brush or roller
- On drying **CHRYSO ELASTOTHANE** forms a seamless protective and waterproof membrane.
- Being viscous it does not sag when applied on vertical surfaces. **CHRYSO ELASTOTHANE** has excellent adhesion to dry as well as primed surfaces of concrete, tile, plaster, bituminous roofing felt, asphalt coating and metal.
- Cured membranes of **CHRYSO ELASTOTHANE** remain highly flexible even at extremes temperature range (-25°C to 120°C).

### Shelf Life & Storage

6 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +2°C to 40°C

### Packing

20 kg

### Precautions

- Store the material at the 2° to 35°C temperature range in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Do not keep left over material in open condition.
- Do not apply the coating if the rain is expected within 24 hours.
- Do not apply coating thickness more than 500 microns in one go. If the total coating thickness is more than 500 microns apply in multiple layers.

### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on [www.chryso.com](http://www.chryso.com)

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