

ULTRA ELASTO

# CHEMLAND CHEMICAL TECHNICAL DATA SHEET



CHEMLAND CHEMICAL

JHOTWARA INDUSTRIAL AREA, JAIPUR

# ULTRA ELASTO

## HIGH BUILD ELASTOMERIC POLYURETHANE BASED WATERPROOFING MEMBRANE

**ULTRA ELASTO PU** is high performance PU based cold applied elastomeric coating. The high elasticity, excellent bond and low water permeability of ULTRA ELASTO PU make it ideal for a wide range of waterproofing applications.

### PRODUCT FEATURES

- Non – toxic
- Water based product, hence, an eco friendly product
- Flexible at wider temperature range, can be applied in moist roof also
- Excellent water barrier
- The excellent chemical resistance of ULTRA ELASTO PU makes it particularly suitable for tanking applications in areas where aggressive ground water conditions prevail
- One component, ready to apply direct from the can
- Anti root properties
- Highly elastic
- It can be applied on metal or corrugated sheets using Chemland multi surface primer

### APPLICATION AREA

The high elasticity, excellent bond and low water permeability of ULTRA ELASTO PU make it ideal for a wide range of waterproofing applications such as foundations, basements, tunnels, ground floors, suspended floors, car decks, roof terraces, balconies, podiums, bridges, parking areas, inspection pits, water retaining structures ( not potable water), sewage works, and inverted roofs.

### SURFACE PREPARATION

All surfaces to be waterproofed should be sound, clean and dry. Concrete surfaces should have a light steel – trowel followed by a fine

hair broom or equivalent finish which is dry and free of dust, oil and other contaminants. All high spots should be removed. Moss and laitance must be removed physically followed by treatment with fungicidal wash to kill any spores and inhibit further growth. After treatment wash down thoroughly with clean water and allow drying. All metal surfaces should be made clean of paint, oils, rust and other contaminants. All shrinkage and non – moving structural cracks should be treated with suitable crack filler or polymer modified mortar.

### PRIMING

Priming is not normally required on good quality concrete substrates. However, absorbent surfaces such as porous concrete sand / cement and cement boards will require sealing to prevent absorption of ULTRA ELASTO PU. This should be done using a 1:1 mixture of ULTRA ELASTO PU and water. For metal surface use Chemland Multisurface primer as per the given instructions.

### APPLICATION METHOD

- The dry film thickness (DFT) of ULTRA ELASTO PU should not be less than 0.5mm or more than 1.0mm for each coat. Rough or textured surfaces will reduce the coverage rate and consequently more material must be allowed to achieve the minimum DFT.
- ULTRA ELASTO PU is a membrane coating, not paint and as such protection is only achieved with a high film build i.e.1mm on flat surfaces minimum. The membrane can be applied in one 1mm coat or two 0.5mm coats maintaining min. DFT of 1mm and above.
- Two coats are recommended on uneven and jointed surfaces to minimize the possibility of thin patches, missed areas and pin holding. Also sloping or vertical surfaces will only accept 0.5mm per coat. In the

case of two – coat application, it is important to re – coat within 24 hrs. of the first coat becoming sufficiently cured to allow operator access.

- The minimum application life (after opening the pack) is up to 48 hrs. if stored in closed containers.
- A short haired synthetic coating brush should be used.
- If a water test is to be done, the membrane should be fully cured.

#### STANDARD COMPLIANCE

- ULTRA ELASTO PU Meets the requirements of ASTM C836
- 1-1.5 kg/sq. mt. / in two coats @ DFT is 1mm coverage vary depending upon the porosity and texture of surface.

TECHNICAL CHARACTERISTIC	
PROPERTIES	RESULTS
Appearance	viscous becomes white after drying
Specific gravity (IS 101 / 1964)	1.60+-0.1
% solid content (IS 101/ 1964)	Min 80
% Elongation (ASTM D 412)	>400 %
Tensile Strength (ASTM D 412 )	1 to 1.5 N/mm <sup>2</sup>
Water vapour transmission for 1.33 film	9.7 g /m <sup>2</sup> / 24 hrs.
Permeability (ASTM E 96)	passes test
Recovery after 100% elongation ( ASTM D 412 )	.85%
Shore a hardness (ASTM D 2240 )	Min. 60
Drying Time	40-45 min. depending upon temp/humidity

#### DURING PAINTING

Always work in well ventilated area. Wear appropriate attire, especially gloves and eye protection, mask. Avoid contact with skin as it may cause irritation.

#### CLEANING

Wash all tools with clean water immediately after application.

#### SAFETY INSTRUCTIONS

In case of eye contact rinse immediately with water and seek immediate medical treatment. To remove that material from skin, use soap and water or appropriate cleanser.

#### STORAGE

Store in a cool dry and well ventilated place away from heat sources, flammables or direct sun light. Do not store near food, drink or animal feed. Keep out of reach of children. Do not dispose of unwanted paint into drains, water sources or open sewers. To dispose safely, pour unwanted paint onto old newspaper and let it dry before placing in a proper waste receptacle.

Environment : Does not contain any added lead, mercury or chromium compounds.

#### SHELF LIFE

Best before 12 months from date of manufacturing in unopened original packing when stored in dry condition.

CHEMLAND CHEMICALS

Jhotwara Industrial Area, Jaipur 302019

Web : [www.chemlandchemicals.com](http://www.chemlandchemicals.com) / E-mail : [chemlandchemical@gmail.com](mailto:chemlandchemical@gmail.com)  
[www.chemlandchemicals.in](http://www.chemlandchemicals.in) /