

## ACRYLIC WATERPROOFING COATING

**LASTEEK A500** is a high build acrylic Polymer based elastomeric single pack coating. The dry film of LASTEEK A500 possesses superior physical properties. The dry membrane is water tight, seamless, durable, tough, highly flexible and weather resistant.

LASTEEK A500 utilizes the latest in acrylic Polymerization technology to perform UV resistant and 'breathable' vapour barrier membrane with excellent durability even in harsh/hot Middle East climatic conditions. LASTEEK A500 coating is available in white and grey colour.

### Features

- Single component ready to use, light weight compared to conventional roof system.
- Formulated to withstand harsh Middle East climate.
- Non-Flammable and Non-Hazardous.
- Protect and waterproof various substrates.
- Flexible and UV resistant.
- High crack bridging capability.

### QUALITY ASSURANCE & MATERIAL WARRANTY

Imperbit Membrane Industries' Management system is registered to ISO 9001 standard. In addition to stringent regular test by IMI laboratory, our products are also tested periodically by independent laboratories.

### Design data/Durability

LASTEEK A500 is used as a liquid waterproof membrane. The product is especially developed for giving an elastomeric, monolithic seal, covering uniformly uneven profiles and protection of the substrate. LASTEEK A500 provides protection against weathering, ageing and ultra violet radiation.

### Uses

- Waterproofing of flat or pitched roofs. (Asphalt, Asbestos, Cement tile, Terrazzo & Concrete).
- Waterproofing of domes, arches, terraces, balconies, sunshades & parapet walls.
- Waterproofing cum decorating coating for plastered walls.
- Protective coating on polyurethane & polystyrene foam insulation.
- Waterproofing over old refurbished roofs/existing bituminous roofs.
- Waterproofing of metal roofs (aged galvanized)

### Surface Preparation

All surfaces must be clean, dry, and free from Oil, grease, rust, peeling paint, curing compound and any loose materials. The substrate should be firm, in case of gaps and cracks fill with suitable sealant (polysulphide) and ensure surface is even. If the substrate is porous, it is recommended to prime the substrate by diluting LASTEEK A500 with 20% water.

### Application

Before use, stir well. Do not apply if rain is expected within 24 hours. Apply the material on the surface using brush/roller or spray. A second coat is applied at right angle after the first coat is dry. It is recommended to apply two coats of LASTEEK A500 to get a dry film thickness of 1.5 mm (approx.). Embed glass fiber mesh/Geo textile around all corner joints, fillets, pipe penetration, pipes, over cracks, drains and where substantial movement is anticipated, lay Glass fiber/Geo textile mesh in the wet first coat before application of subsequent coats.

Clean tools with soap & water.

### Curing

It requires 24 hours to dry in between 2 coats; a 48 hour final curing is adequate. Low temperature and high humidity will slow down the curing process. In case of expected rains, do not apply LASTEEK A500. Ensure curing is complete before laying thermal insulation board, mechanical protection and other coverings.

### For trafficking roof

#### Thermal insulation & Mechanical protection

Ensure LASTEEK A 500 is completely cured, then place a non-woven polyester separation layer followed by extruded polystyrene panels with 100% closed cell structure; over the extruded polystyrene insulation board, lay polyethylene sheet as separation layer and then place the 5cm thickness topping screed or suitable cement tiles.



A liquid waterproofing product

| PROPERTIES                | TYPICAL VALUES       | STANDARD       |
|---------------------------|----------------------|----------------|
| APPEARANCE                | THIXOTROPIC COATING  | -              |
| SPECIFIC GRAVITY          | 1.30 ± 0.05          | ASTM D1475     |
| SOLID CONTENT             | 60 – 65 %            | ASTM D1076     |
| pH                        | 8 to 9.5             | -              |
| TENSILE STRENGTH          | 50 N/cm <sup>2</sup> | ASTM D638/D412 |
| ELONGATION AT BREAK       | 250%                 | ASTM D638/D412 |
| FULL CURING               | 48 Hours (Approx.)   | -              |
| CRACK BRIDGING CAPABILITY | > 0.5 MM             | ASTM C 836     |
| UV RESISTANCE @ 100 HRS   | PASSES               | ASTM G 53      |
| APPLICATION TEMPERATURE   | 10 – 50 °C           | -              |
| SERVICE TEMPERATURE       | -5 TO + 90 °C        | -              |

**Limitation**

Do not use LASTEEK A500 in poor drainage areas that will be constantly underwater.

**Protection from Mechanical Damage**

The cured membrane could be damaged by sharp objects and should be protected against damage and site abuse by other trades.

**Storage/Shelf life**

Store the pail of LASTEEK A500 in cool and dry place away from direct sunlight and heat. Container must be tightly closed, to prevent formation of the skin on the surface of the material. The shelf life of the product is 1 year from the date of manufacturing provided it is stored in unopened factory packed pails.

**COVERAGE RATE:** Old roofs: 1 – 1.5 kg/ m<sup>2</sup>  
New roofs: 1.5 – 2.5 kg/ m<sup>2</sup>

**Packing:** 20 Kg pail.

**HEALTH & SAFETY:**

Generally safe, non-toxic and non-flammable when wet. The product should be stored in a cool place out of direct sunlight. Proper care must be taken when applying the coatings. Wear protective clothing's, gloves and goggles ensure proper ventilation if used in closed areas, avoid contact with skin, eyes or inhalation. In case of accidental eye contamination, rinse immediately with plenty of water and seek medical advice. Refer to product Material safety Data sheet for detailed information.

The technical data given herein are the average values obtained on the test carried out on the material.

The test is the industry standard for this type of material and comply with the criteria stipulated in ASTM.

IMI reserves the right to change or modify the data without prior notice. All reasonable care has been taken in compiling the data that to best of our knowledge is accurate and true. All recommendations are made in good faith. No responsibility can be accepted by us and no warranty is implied with regards to any of the recommendations made in the datasheet, since the condition of actual use and the labour involved are beyond our control. The products are warranted against manufacturing defects and sold subjected to IMI standard terms and condition of sale.

In strategic alliance with **IMPERBIT MEMBRANE INDUSTRIES L.L.C. DUBAI, U.A.E.**



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