

# I COAT PU - ALIPHATIC

## TECHNICAL DATA SHEET



إنوشيم انترناشونال ش.ذ.م.م

InnoChem International L.L.C.

Waterproofing & Insulation Materials

### Description

I COAT PU - ALIPHATIC is a two component, UV stable, solvent based polyurethane seal coat. It is available either pigmented or clear.

### Typical Applications

- Top coat for INNOCHEM flooring systems
- Interior and exterior coating applications
- Final waterproofing, weather resistant coating on roofing systems

### Features

- UV stable.
- Suitable for exterior applications
- Excellent abrasion resistance
- Gloss finish improves aesthetic appearance and reduces dirt retention
- Excellent adhesion to a variety of substrates
- Available in a range of standard colours

### Packaging

4 and 20 litres

### Method of Application

#### 1 SURFACE PREPARATION

- Concrete and screed should be at least 28 days old with a maximum relative humidity at the surface of 75% when measured with a hygrometer to BS 8201-81. Surfaces must be free of all contaminants and surface laitance.
- All dirt, oil, grease and fats should be removed using proprietary degreaser or detergent as appropriate and the surface allowed to dry prior to further treatment. All construction contaminants such as plaster, fillers and paint must also be removed.
- The surface must be free of laitance and defective concrete or screed. Laitance can be removed mechanically by either vacuum assisted planning, scabbling, shot blasting or diamond grinding equipment. Any weak or friable material exposed during the preparation process should be removed and repaired using a suitable Dr. Fixit repair mortar. The appropriate preparation technique should be chosen considering the site conditions and the profile created considering the material to be applied.
- Immediately prior to the material application, all dust must be removed from the prepared surface using industrial vacuuming equipment.

#### 2 MIXING

- Thoroughly mix Part A and Part B in their individual containers to redistribute any settlement and then transfer and mix together in a separate clean mixing container. Mix the material using a slow speed electric mixer for two minutes.

#### 3 APPLICATION

- Apply the mixed material by brush or roller at the recommended coverage rate.

#### 4 CLEANING

- Clean tools and equipment immediately after use

#### Note:

- Application temperature of the substrate should be in the range of + 10 to 40°C.
- Do not dilute with thinners or solvent.
- Apply the material in properly ventilated areas.
- When applying externally it is recommended to avoid direct sunlight and avoid application during the hottest times of the day.

### TECHNICAL DATA

VOC Content	<450 g/ltr (Maximum allowable 500g/ltr)
Mix Density @ 25°C	1.05 ± 0.02 g/cm <sup>3</sup>
Solid %	55 ± 2
Pot life, minutes @ 25°C	45
Surface Dry Time, Hours	1 – 2
Tack Free Time, Hours	3 – 4
Hard Dry Time, Hours	Overnight
Complete curing time, Days	7
Gloss	40 (60°C Gardner) Semi – Gloss (ASTM D 523)
Adhesion	On primed surface 2.5 Mpa (ASTM D 4541)
Shore D Hardness	75 ± 5 (ASTM D 2240)
Abrasion resistance after 1000 cycles	45 mgs weight loss after 1000 cycles using CS-17 resistance (ASTM 4060)
after 1000 cycles	CS-17 resistance
Chemicals resistance	Good overall chemicals resistance (ASTM D 543)
UV resistance	1000 hours no loss of gloss, no colour change (ASTM G 53)
Solar reflectance index	95% (White) (ASTM C 1549) 40.5% (Pale Grey) (ASTM C 1549)



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### Theoretical Coverage

0.16 - 0.2 ltr/sq.mt per coat. (90-110 microns DFT per coat)

### Storage

When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance.

### Health and safety Precautions

As with all polyurethane resins, work cleanly at all times. Skin and eye contact should be prevented by the use of plastic or rubber gloves, eye protection, barrier creams and protective clothing. Any resin or hardener in contact with the skin should be removed with warm soapy water or a resin removing cream. NOT solvent. In case of eye contact wash copiously with water and in the case of accidental ingestion, obtain immediate medical attention. Provide good work area ventilation. See MSDS for Further information.

INNOCHEMINTERNATIONAL LLC offers a wide range of structural protection and waterproofing systems