

TRI- COAT PU

Two components polyurethane Coating

Description

Tri -Coat PU is a coloured or transparent two components aliphatic polyurethane, solvent containing which provides excellent gloss and color retention coating. It is available in standard colors and special colors on request.

The product is certified by (Egyptian Petroleum Research Institute)

In accordance to ASTM (B117- salt spray test D1748 - Humidity test



Uses

Tri -Coat PU used as a top coat for concrete, steel, and wood exposed to the effects of severely Condition environment, chemicals, abrasion, friction and mechanical stresses for the following:

- Laundries, stores, garages, hospitals and drinking water tanks.
- As a coating for cooling and freezing areas.
- Walls and floors of chemical plants, textile factories, and workshops,
- Dairy, food and pharmaceutical factories.
- Protective coating for plastic pipes against UV rays
- Top coat in hospitals for operation rooms due to its hygienic properties.

Advantages

- Stable against sun light and resistant to ultra violet rays.
- Good abrasion resistance, impact strength, flexibility and MAR resistance.
- More flexible than Epoxy so it acts as a bridge for hair cracks,
- Has good impact resistance so can be used it as coating for sports area,
- Lactic acid resistance so its used for dairy production area.
- Hygienic so can be used for food and pharmaceutical factories,
- Anti-fungal and anti-bacterial.
- High resistance to the effects of chemical agents, atmospheric conditions, humidity and water.
- High resistance to mechanical stresses, specially friction and abrasion.
- High bonding strength to concrete, steel, wood surfaces.
- High coverage rate and short drying time.

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Factory & Head Office:

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www.trichem-eg.com

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TECHNICAL DATA SHEET

TRI- COAT PU

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Technical Data @°25c

Test	Clear	Pigmented	
Appearance	Transparent liquid	Grey and many colors on request	
Density	0.95 - 0.05 kg/Lt @ 25 °C	1.31 - 0.05 kg/Lt @ 25°C	
Solid content (by weight)	56 ± 2 %	$70 \pm 2\%$	
Solid content (by Volume)	50 ± 2 %	55 ± 2%	
Initial setting time	2 hrs. Depend on Temperature	2 Hrs. Depend on Temperature	
Final setting time	24 hours	24 hours	
Pot life	> 3 hours @ 25°C	> 3 hours @ 25° °C	
Recommended mix ratio	5A:1B	8A:1B	
Touch dry	2 - 3 hrs. Depend on Temperature	2 - 3 hour depend on Temperature	
Full curing	7 days decrease at high temperature	7 days decrease at high temperature	
Min. Application temperature	10 C°	10 C°	
Re-coating time	12 - 18hrs. Temperature depended	12 - 18hrs. Temperature depended	
Rate of use (theoretical)	6-8 m ² per kg 50 microns DFT	5-6 m ² per kg 75 microns DFT	

Chemical Resistance

Chemical agent	Result	Chemical agent	Result
HCL 30%	Good	Borax	Excellent
Phosphoric% 40	Excellent	NaOH 45%	Excellent
Sulphuric 50%	Good	Benzin	Excellent
Acetic acid 15%	Good	Petrol	Excellent
Lactic acid	Excellent	CO2 gas	Excellent

Directions for use

Surface Preparation

All surfaces should be sound, dry, free from oil, grease and loosely adhering Particles.

Steel surfaces should be free from scale and rust.

The concrete age should be 28 days at least.

Priming

Concrete surfaces should be primed with tri prime SB

(See separate data sheet).

Steel surfaces should be primed with tri-zinc (See separate data sheet).

The primer should be allowed to achieve a tack-free condition before Applying Tri -Coat PU.

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TCHEM CONSTRUCTION CHEMICALS

TECHNICAL DATA SHEET

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Mixing

Never mix Tri -Coat PU base with anything except Tri -Coat PU hardener.

Mix one can of base with one can of hardener.

Do not use the contents of cans which have leaks, holes or loose lids.

Stir the contents of each can thoroughly and then pour the entire can of hardener into the can of base and stir until the mix is a uniform color.

Application

Apply Tri-coat PU straight from the can by brush, roller, airless spray or spray gun.

For anti slip resistant surface, spray a layer of pure sand at (0.3 - 0.65) mm

Diameter at a rate of 1 kg/m² on the first coat Tri-coat PU, then apply top coat

By brush & roller:

Volume of thinner 1 - 8%

Air spray:

Volume of thinner 1 –10 %

Airless spray application:

Volume of thinner 1-8 % according to DFT required

- Nozzle orifice approx. 0.55-0.70 mm.
- Nozzle pressure 150 bar.
- Humidity: below 85 % RH.
- Temperature: temperature of the surfaces should be 5°C min: 35°C max

dilution

Tri -Coat PU may be diluted by **Tri- sol 20** (0- 10) max. Depending on the Application type and Tools used.

Cleaning

Clean all tools and equipment immediately after use with white thiner.

Package

A+B 5,12,15 Kg pack,

Storage

should be stored at room temperature in dry warehouse.

Shelf life

Two Years in original packing.

Health and Safety

- Resins contain irritants, especially to the skin, eyes.
- Persons handling these materials should use appropriate protective clothing, Including rubber or plastic gloves.
- If the product should contact the skin, it should be removed immediately With a dry cloth or paper towel, and the areas of contact washed Thoroughly with soap and water.

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