Cert No: 20851

PALATINE PAINTS

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Description: Solvent Free High Build Topcoat has been developed to provide protective and decorative properties to concrete, steel and other substrates. The material is supplied as a two pack system, Comprising pre- weighed amounts of base and curing agent. After mixing all components together, an easily applied chemical and abrasion resistant finish is produced. Solvent Free High Build Topcoat is also available in a fast/winter cure version. (Solvent Free High Build Topcoat FC)

Typical Usage: As a waterproof, tough, chemical resistant floor or wall coating in food preparation areas, breweries, abattoirs, bottling factories, etc. As an internal lining for concrete or steel storage tanks containing oils, chemicals, water, etc. It is particularly suitable for chemical bunds.

Advantages:

- Solvent Free
- Hygienic & Easy to Clean
- Easily Applied
- High Build Tough & Durable
- Low Odour
- Very Good Adhesion to Concrete & Steel
- Very Good Chemical Resistance

Curing Schedule (@ 20°C)
N.B. Every 10°C decrease in temperature will result in the curing time doubling.

Product	**High Build Topcoat**	**High Build Topcoat Fast Cure**
Pot Life	20 - 25 mins	15 mins
Pedestrian Traffic	16 hours	6 hours
Light Wheeled Traffic	24 hours	24 hours
Full Traffic	7 Days	4 days
Full Cure	7 Days	7 days
Coverage	0.25 - 0.30 kg/m2/coat	

Adhesive Strength 3.9 N/mm2 (concrete / failure) >12 N/mm2 (mild steel)

Chemical Resistance Excellent (diluted acid / alkalis) Diluted Acids, Alkalis, Oil, Petrol, Diesel, Vegetable Oils

Surface Preparation:

A) Concrete shall be a minimum of twenty-eight days old and/or the residual moisture content shall be below 6%. Ensure that the concrete is clean and free from dust, laitance, grease, oil, curing compound, existing paint finishes, etc. Blow holes and defective concrete shall be made good using a proprietary repair compound, e.g. Concrete Patch Repair Mortar. Blockwork shall be sealed using Surfacer. Suitable mechanical treatment, such as vacuum enclosed shotblasting, is the preferred treatment prior to application, as this ensures a mechanical “key” for the coating.

Mixing

Pour the contents of the part B container into the part A container and thoroughly mix using a slow speed mixing drill for a minimum of five minutes until the material forms a uniform colour and consistency. **Never mix by hand.**

Application

Once mixed pour coating into suitable scuttle and apply by brush or short/medium piled roller, at a nominal rate of 0.25 - 0.30 kg/m2. Leaving mixed material in tins will significantly reduce workable time. After a minimum of 14 hours and before a maximum of 48 hours, apply a second coat at the same rate. Should a non- slip finish be required, broadcast an appropriate aggregate immediately after the first coat. Brush off excess aggregate the following day, prior to applying the second coat.

Equipment Cleaning

Clean equipment with ToolClean prior to curing.

Curing

Allow to cure for a minimum of 16 hours @ 20°C prior to light foot traffic access and 48 hours @ 20°C prior to vehicular trafficking. Seven days cure @ 20°C is recommended prior to exposure to chemicals (including water).

N.B. Every 10°C decrease in temperature will result in the curing time doubling.

Health & Safety

Wear gloves and goggles. Wash off splashes immediately with soap and water. Please refer to Material Safety Data Sheet for additional information. Solvent Free High Build Topcoat shall be applied strictly in accordance with the manufacturer's instructions. Specific installation advice can be provided upon request.

Coverage

A 5 kg pack is sufficient to coat 8.0 m2 -10.0 m2 of surface with the recommended two coat treatment, providing an overall d.f.t. of 425 - 500 microns.

Packaging

Solvent Free High Build Topcoat is supplied in 5 kg

Storage & Shelf Life

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions. Solvent Free High Build Topcoat has a maximum of twelve months shelf life when stored in the original, unopened containers, and is stored in accordance with manufacturers' instructions.

Limitations

Do not apply to wet or uncured concrete surfaces. Do not proceed with application if atmospheric relative humidity is, or is anticipated to be >75% or if the surface temperature is <3 ºC above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <10ºC during the application or within the curing period.

General Guidance

This Data Sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Specific installation advice can be provided upon request. Please consult our Sales Department to confirm that this Data Sheet is the current issue.