Anupam Enterprises

Protective Coatings Division

Duracoat 6000

Epoxy High Build Coating

Product Description:

Duracoat - 6000 is a two-component high solid epoxy coating designed to provide excellent protection in demanding environments and is especially suited as a tank coating in petroleum products industry.

Features and Benefits

- Easy to apply and can be applied via airless spray, conventional spray, brush or roller.
- Excellent resistance to corrosion, erosion, abrasion, chemical attack and other destructive conditions.
- High build coating that provides desired film build up to 100 microns in a single coat without sagging for economical application.
- Serves as single protective coat that result in fewer labour stops, less down time and lower application costs. (Topcoats are recommended for maximum protection)
- Provides excellent resistance to dilute acids, alkalis, crude oil, diesel fuel, kerosene, gasoline, jet fuel, salt water, and water.
- Can be applied over metal and concrete surfaces.
- Noted for its excellent adhesion, toughness, abrasion resistance and overall chemical and solvent resistance.
- Has very low water and water vapour permeability.
- Suitable for varied end applications i.e. ideal for heavy industrial, chemical, marine, splash and spillage, fresh water, sea water and chemical immersion.
- Can tolerate high humidity or surface dampness during application.
- Resists bacterial attack.
- Exhibit long-term protection and is cost-effective.

Recommended uses

Drill Tubing	Drill Casing
Crude Oil Pipelines	Fuel Storage Tanks
Sour Gas Pipelines	Drilling Mud Tanks
Oil & Water Separators	Chemical Processing Equipment
Oil-filed Production Tanks	Railway Wagons & Coaches
Power Plants	Off-shore Structures
Pulp & Paper Mills	Masonry Construction
Interior/Exterior Heavy Duty Maintenance	Petroleum Refineries
Structural Steel	Urea Prill Towers
Food Processing Industry	Marine Installations

Resistance Guide:

Immersion Resistance:

- Aliphatic Hydrocarbon Solvents, gasoline, kerosene, fuel oil and jet fuel @ 25° C
- Fresh water and sea water up to 45° C
- Potable water

Resistance to spillage and splash - not immersion

- Alcohols : **Severe**
- Aliphatic solvents, gasoline, kerosene, fuel oil : **Severe**
- Weak solutions of acids and alkalis : **Severe**
- Aromatic Solvents : **Severe**
- Oxygenated Solvents : **Moderate**
- Fats & oils, lubricating oils, cutting oils : **Severe**

** *Specific exposure environments may affect some colours.*

Surface Preparation:

Steel - The surface should be blast cleaned to **SSPC-SP 10-63T** or **NACE No. 2** i.e. loose rust and scales, dirt, grease, oil, paint, wax, weak oxide films and other contaminants should be removed. Blast cleaning to **SSPC-SP 5-63** or **NACE No. 1** is recommended where heavy corrosive conditions exist or coating is required to be immersed. That means a surface with a grey metallic colour, slightly roughened to form a suitable anchor pattern for coatings. This surface is free of all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint and other foreign matter. In absence of blast cleaning, prepare the metal surface by wire brushing, sanding, grinding, scrapping or chipping with hand or power tools. Remove all the contaminants. Apply one coat of **Anticora EZP 500 Epoxy Zinc Phosphate Primer.** Then apply one or two coats **Duracoat 6000.** It can be overcoated with **Durapoxy 200 Epoxy Enamel, Anuthane Enamel Polyurethane or Monocoat Enamel Polyurethane.**

Non-ferrous Metals - Remove dirt, dust, oil, old paint etc. Degrease the surface with degreasing solvents like xylene or tri-chloroethylene. Apply one coat of **Anuprime - 291 Wash Primer** for obtaining maximum adhesion. Apply one coat of **Anticora EZP 500** followed by one or two coats of **Duracoat 6000.**

Concrete: Concrete surfaces should be grey or grey-white color and free from pits, pockets and holes. Prepare the surface with abrasive blasting or power tools. Surface imperfections should be filled in with **DURAPATCH**. No cement dust or sand should be dislodged. In absence of blasting, etch the surface with 10-15% muriatic acid diluted in water. Allow this acid solution to remain on the surface for 10-15 minutes or until the bubbling stops. Thoroughly rinse the floor with water to remove all traces of acid. Allow the floor to dry completely before painting.

Concrete surface requiring a primer should be primed with this coating reduced 33% with **Anusol - ETP** Epoxy Thinner for assuring maximum penetration of the coating into the concrete and a better bond of coating system to the substrate. After the initial coat has dried for 24 hours, apply 2-3 full coats of the same unreduced coating.

TECHNICAL DATA

Name/Description	**Duracoat 6000**
Type	Two pack cold cured
Composition	Epoxy Resin suitably pigmented.
Colour	Range of selected colors.
Finish	Smooth and Semi Glossy
Volume Solids (mixed)	60± 3%
Mixing Ratio	Base : Hardener 4 : 1 by volume
Pot Life @ 30° C	6 to 8 hours
Dry film thickness per coat	100 microns
Coverage-(theoretical-no loss)	6 m^2 /litre
Serviceability @ 30° C Dry to touch Hard Dry Re-coat Full Cure	 4 hours Overnight 24 hours 7 days
Induction (Sweat-in-time) @ 30° C	30 minutes
Dry heat resistance	150° C
Relative Humidity	90%
Application Temperature -minimum -maximum	 10° C 35° C
Solvent/Thinner	Anusol - ETP Thinner
Flash Point	23° C
Packing	4 & 20 litres
Shelf Life	6 months
Precaution	Flammable. Keep away from heat and open flame. Maintain good ventilation and avoid breathing vapours.

Notes

- Brushes and spray equipments should be cleaned with **Anusol - ETP Epoxy Thinner.**
- The contents should be stirred thoroughly prior to use.
- After mixing Base and Hardener in recommended proportions, allow for 30 minutes induction period or *sweat-in-time (maturing)* before application.
- When overcoating the weathered or aged **Duracoat - 6000**, ensure that the coating is fully free from all contamination such as oil, dust, grease, stains etc.
- This coating should always be thinned with **Anusol - ETP Epoxy Thinner.** The use of alternative thinners can severely inhibit the curing mechanism of the coating.

Disclaimer:

Information provided herein is based upon tests believed to be reliable. It does not guarantee the results to be obtained. Nor does it make any express and implied warranty or merchantability, or fitness for a particular purpose concerning the effects or results of such case. It does not release you from the obligation to test the products supplied by us as to their suitability for the intended uses. The application, surface preparation and use of the products are beyond our control and, therefore, entirely your own responsibility.

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