

# Anupam Enterprises

## Protective Coatings Division



## Durapoxy 200

### Epoxy Enamel

#### Product Description

Durapoxy 200 is a two-component high solids epoxy coating formulated for demanding marine and chemical environments. The cured coating offers excellent adhesion to metals, wood, concrete etc. and combines hardness with good flexibility. Either clear or pigmented, the coating presents a high gloss appearance and exhibits excellent resistance to fumes, spillage and splash of acids, alkalis, solvents, chemicals, jet fuel, grease etc.

#### 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.
- 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.
- Has 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.
- Exhibit long-term protection and is cost-effective.

#### Recommended uses:

Clean Rooms	Laboratories
Lavatories	Power Plants
Paper Mills	Storage Tanks
Chemical Plants	Petroleum Refineries
Machinery and Equipment	Floor Coating
Off-shore and Marine Installations	Sanitary Wall Coating
Railway Wagons & Coaches	Fertilizer Plants

## Resistance Guide:

(Resistance to spillage and splash - not immersion)

- Alcohols, formaldehyde, glycol ethers, chlorinated solvents : **Moderate**
- 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**
- Fresh and Salt Water : **Severe**

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

## Performance Information:

Abrasion Resistant	Chemical Resistant
Resists Bacterial Attack	Stain Resistant / washable

## 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 or **Anticora EZC 500** Epoxy Zinc Chrome Primer. Then apply two to three coats of **Durapoxy 200 Epoxy Enamel**.

**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 Durapoxy 200 Epoxy Enamel.

**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	<b>Durapoxy 200</b>
Type	Two pack cold cured
Composition	Epoxy Resin suitably pigmented.
Colour	Range of selected colors.
Finish	Smooth and Glossy
Volume Solids (mixed)	38± 3% Clear 40± 3% Pigmented
Mixing Ratio	Base : Hardener 3 : 1 by volume
Pot Life @ 30° C	6 to 8 hours
Dry film thickness per coat	30 to 40 microns
Coverage-(theoretical-no loss)	13.3 to 10 m <sup>2</sup> /litre
Serviceability @ 30° C	
Dry to touch	1 hour
Hard Dry	16hours
Re-coat	16 - 24 hours
Full Cure	7 days
Induction (Sweat-in-time) @ 30° C	30 minutes
Dry heat resistance	120° C
Relative Humidity	80%
Application Temperature	
-minimum	13° C
-maximum	38° 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 Durapoxy 200, 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.*

## **Anupam Enterprises**

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