



## *High Solids Epoxy Coating*

### Description

**Duraguard 430** is a 2 part solvent-free amine cured epoxy resin based compound. It has been specially formulated to provide a chemical resistant coating for walls and floors.

### Features and Benefits

- ❑ **Chemical Resistance:** Resistant to splash and spillage of mild acids, alkalis and salts. It is suitable for immersion service
- ❑ **Safety:** Solvent-free, low odour and environmental friendly.
- ❑ **High Build of Film:** Increased protection against damage and abrasion.
- ❑ **Excellent Adhesion:** Most of steel, concrete, wood etc.

### Recommended

As a coating paint to protect against chemical attack for floor and wall in:

- ❑ Food and Beverage manufacture.
- ❑ Chemical Plants.
- ❑ Pulp and Paper Mills
- ❑ Bakeries.
- ❑ Tank Lining

### Application

**Preparation of the substrate:** Steel surfaces must be freed from rust and “rolling skin” by blasting with sand or shot. Grease, oils and other contaminants must be removed

Concrete surfaces must be clean and free from laitance layer and other contaminants. For all concrete and porous surfaces, a primer sealer coat is recommended to plug the capillaries and

pores in the concrete, to bind the dust and to make sure the following coating is more securely bonded.

### Mixing

Stir content of each can thoroughly with a power stirrer or similar tool using a lifting action. Add hardener to resin and mix until uniform. Let stand for 10 minutes before use.

### Coating

**Duraguard 430** is applied brush or roller. Apply even coats of the mixed material to prepared surface. Additional coats may be required to attain the specified thickness.

### Coverage

Theoretically spreading rate of 8 m<sup>2</sup> per 1 litre corresponding to 125 microns wet film thickness.

### Clean up

Clean all equipment immediately after use with Xylene or Thinner K.

### Recoating Duraguard 430

Surface must be free of all oil and grease and other contaminants. If **Duraguard 430** has aged past three days, abrade the surface and swab with Xylene or Thinner K. Recoat the surface within 20 minutes, otherwise it will be necessary to reswab.

### Technical Data

	Comp A	Comp B
<b>Based</b>	Resin	Hardener
<b>Mixing Ratio</b>	2	1
<b>Density (kg./ltr.)</b>	1.6	1.02
<b>Mix Density (kg./ltr.)</b>	1.5	
<b>Classification</b>	Amine Cured Epoxy	
<b>Finish</b>	gloss	
<b>Solid by Volume</b>	100%	
<b>Pot life @ 25 °C</b>	45 min	
<b>Drying Time @ 25 °C</b>	Touch 30 mins Recoat 3 hours (min)	
<b>Setting Time @ 25 °C</b>	3 hours	
<b>Dry film per Coats</b>	125 microns	
<b>Number of Coats</b>	2 coats, min.	
<b>Light Traffic</b>	24 Hours	
<b>Full Cure</b>	5-7 days	

### Mechanical Properties

<b>Compressive Strength</b> (ASTM D 695)	50	N/mm <sup>2</sup>
<b>Tensile Strength</b> (ASTM D638)	32	N/mm <sup>2</sup>
<b>Flexural Strength</b> (ASTM C 348)	64	N/mm <sup>2</sup>
<b>Bonding Strength</b> (ASTM C882)	3	N/mm <sup>2</sup>
<b>Absorption</b> (ASTM C642-82)	0.21	%

### Chemical Resistance

Chemical	Resistant	Chemical	Resistant
<i>Crude oil</i>	++	<i>Toluene</i>	++
<i>Petrol</i>	++	<i>Potassium hydroxide</i>	++
<i>Hydrochloric acid, 30%</i>	++	<i>Sodium hydroxide, 50%</i>	++
<i>Lactic acid, 5%</i>	+	<i>Sodium Chloride, 30%</i>	++
<i>Nitric acid, 5%</i>	++	<i>Ammonia, 10%</i>	+
<i>Oxalic, 10%</i>	+	<i>Sulfuric, 10%</i>	++

**Note** ++ = Resistant  
+ = Limited resistant

**SUPERCEDE DU 430 TH-02/97**



The company provides good servicing from a team of dedicated specialists in the field. When used in accordance with its current published directions the will perform as described in this catalogue. Company will not be responsible for difficulties caused by other materials, conditions or interior workmanship. We reserve the right to determine the cause of any difficulty by our accepted test methods.