

## 1600 PURE EPOXY

### Description

1600 PURE EPOX is a two-component, solvent free epoxy coating, hardened with aliphatic amine. It is ideal for use in industrial applications because of its excellent resistance to chemical environment. Suitable for metallic and concrete surfaces. Exhibits excellent resistance to fresh and salt water even in permanent contact, chemicals and lubricating oils. Recommended for sewage and wastewater treatment plants, refineries, food processing industries, hydroelectric power stations, paper processing industries and textiles. Ideal for immersed structures, like offshore and harbor applications (e.g., river installation, splash zone, immersion zone, bridges), buried tanks, steel pipes etc. Not indicated for use in solvent tanks, strong acid and alkaline solutions, and drinking water.

### Technical Information

Shade	White - shades after request
Gloss	Glossy
Solids content	(A+B) 100% by volume
Specific Weight	A+B 1,45 ± 0.05 kg/lit (EN ISO 2811)
Theoretical Coverage	6,90 m <sup>2</sup> /kg (100µm)
Mixing Ratio	A:B-4:1 by weight
Resistance in temperature	up to 120°C (service temperature, dry exposure)
Pot life	45-60 minutes (25°C) - Temperature increase reduces the pot life
VOC*	A: 0 g/lit, B: 0 g/lit, Ready for use (A+B+5% thinner): 50 g/lit EU LIMITS (2010): 500 g/lit SUBCATEGORY: j –two-pack performance coatings, anticorrosion finish, coat for cement surfaces, Type SB

### Drying Time (100 µm, 60% RH)

	Dust free	Drying	Recoating (Min)	Recoating (Max)	Full drying
(10°C)	10 hr	24 hr	18 hr	60 hr	14 days
(15°C)	7 hr	18 hr	14 hr	48 hr	10 days
(25°C)	4-5 hr	12 hr	10 hr	36 hr	7 days
(35°C)	2-3 hr	10 hr	8 hr	16 hr	5 days

*(The above times are indicative and depend on the thinning percentage, moisture and temperature)*

### Surface Preparation

The surface where the material will be applied must be completely dry and free of loose parts and foreign objects such as dust, oil, grease etc.

**Metallic surfaces:** For better results, sandblast is recommended at least Sa 2, ISO 8501-1 or for prolonged exposure of the surfaces Sa 2½ with profile 30µm. After sandblasting the surface must be totally cleaned. Primers, zinc rich epoxy primer 751 and epoxy primer 812 are, recommended for high demands of anticorrosive protection of metallic surfaces.

**Cement surfaces:** Cement surfaces are often covered by a plaster layer or sprayed with cement. These layers are weaker than the core of the cement with which they are loosely attached. These layers must be removed. The cleaning of the cement should be done with solvents, but a safer way is sandblasting. Before the application, the surface must be totally clean and dry. The use of 850 as an epoxy primer is suggested for cement surfaces, especially those of low quality. The high penetration of this primer makes the substrate stable, connects the remaining dust and seals or shortens the pores. After priming, any existing imperfections (cracks, holes) should be filled using epoxy putty 800 (A+B). The surface should be coated with the final coating 24 hr after priming.

### Application

Mix thoroughly parts A:B-4:1 by weight. It is suggested to use a mechanical stirrer. It is applied with airless (nozzle 0,021-0,023in), or Air pistol (diameter: 1,8-2,2 mm,) after 0-5% thinning with 1131, if necessary. Painted surfaces should not get wet before drying is achieved. If you exceed the maximum recoating time the surface should be lightly sanded with sandpaper before recoating.

Suggested film thickness	100-200µm/layer µm, 200-500µm total
Application temperature	10-35°C
Relative humidity	< 70%

	<b>Suggested thinners</b>	1131 The choice of suitable thinner depends on the application method, the temperature and the humidity conditions. For the suitable choice, please contact with the technical department of our company.
<b>Storage</b>		Up to 12 months in a dry and cool place. (10-30°C).
<b>Safety</b>		Please consult the Material Safety Data Sheet. Available upon request.

**This Technical Data Sheet replaces and cancels every previously issued.**

**The information, instructions, recommendations and specifications mentioned in this data sheet, represent the results and experience obtained from testing under controlled or specially adapted conditions.**

**The accuracy and relevance of these results to the actual conditions, in which you apply the product, must be determined and depend only on the purchaser and/or applicator.**