1200 HYDRO EPOXY

Description

HYDRO EPOX 1200 is a high quality, two component epoxy coating, VOC free, hardened with amine. It is specially designed for the interior and the exterior coating of metallic and cement tanks, industrial floors, laboratory work benches, pipes that are used for the storage and transfer of drinking water (up to 100˚C) and some foodstuff. It presents excellent resistance in fresh and seawater, chemicals and lubricants. It covers all the high demands of anticorrosive protection for industrial applications. It is not suitable for fuel and solvent tanks. **It is certified by European institute according to Regulation (EU) No. 10/2011 and Regulation (EU) No. 1935/2004 which refers to the suitability for contact with drinking water and foodstuff.**

Technical Information

Shade	White
Gloss	Glossy
Solids content	(A+B) 100% by weight (EN ISO 3251, non-volatile)
Specific Weight	A+B 1,65 ±0,05 kg/lt (EN ISO 2811)
Theoretical Coverage	6 m^2/kg (100μm) 3 m^2/kg (200 μm) for floor coating
Mixing Ratio	A:B-4:1 by weight (A:B-2,2:1 by volume)
Resistance in temperature	Up to 120ºC
Pot life	45-60 minutes (25ºC) - Temperature increase reduces the pot life
VOC*	A: 0 g/lt, B: 0 g/lt EU LIMITS (2010): 500 g/lt SUBCATEGORY: j –two-pack performance coatings, anticorrosion finish, coat for cement surfaces, Type S

Drying Time
100μm-60% relative humidity

	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, relative humidity and temperature)
The material for storage in the bulk must be contacted with the coating after 3 weeks of the surface coating until it is fully dried

Surface Preparation

The surface must be clean from dust, detached pieces and other materials like oil, grease etc.
METAL SURFACES: Metal surfaces must be cleaned from rust by sandblasting at least Sa 2 according to standard ISO 8501-1 or must be blasted at Sa 2 ½ with 30μm profile for prolonged exposure of the surface. After blasting, surfaces should be cleaned thoroughly to remove all foreign matter. Primers Zinc Epoxy Primer 751 and Epoxy Primer 812 are recommended for demanding corrosion protection of metal surfaces.
CEMENT SURFACES: The concrete surfaces are often covered by a layer of plaster or sprinkled with cement. These layers are weaker than the heart of cement, which is loosely clasped. Such layers should be removed entirely. Purification of cement should be done with solvents, although the best and safest way is by sandblasting. Prior to application surfaces must be completely clean and dry. For concrete surfaces it is recommended to use the Epoxy Primer 850, particularly when it comes to low quality surfaces. The high penetration of this primer provides the substrate with the necessary stability, connects any residual dust and closes or at least diminishes their resources. Any defects (cracks, holes) can be sealed using epoxy putty 800. Upon application of the primer must take 24 hours to apply the final coting.

Application

Mix A:B-4:1 (by weight) and stir very well. It is strongly recommended to use mechanical stirring. It is applied with airless (nozzle 0,01-0,021in), brush or roller. **It is ready to use, do not need the addition of thinner**. If necessary, it is thinned up to 5% with thinner 1131. The coated surfaces should not be in contact with water until they are fully dried. If the recoating time is not succeeded, the surface must be slightly sanded.
For the list of the approved foodstuff that are suitable for contact with 1200 HYDRO EPOXY, please refer to our technical department.

	Suggested film thickness	100-200 μm/layer, 200-500 μm total thickness
	Application temperature	10-35˚C
	Relative humidity	< 80%
	Suggested thinners	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.
Storage	Up to 12 months in a dry and cool place. (10-35˚C).	
Safety	Please consult the Material Safety Data Sheet. Available upon request.	