



Steel Guard HB 1100

High Build Epoxy Anti-Corrosive Metal Primer

Product Description

Steel Guard HB 1100 is a two-component, high-build polyamide-cured epoxy primer designed for the long-term protection of steel structures exposed to industrial, marine, and atmospheric environments. The coating provides excellent adhesion to properly prepared steel surfaces, outstanding corrosion resistance, and high film build in a single coat, making it suitable for heavy-duty protective coating systems.

Product uses:

- Structural steel structures projects.
- Industrial plants
- Steel warehouses
- Steel bridges
- Transmission towers
- Storage tanks
- Pipelines
- Offshore and marine structures
- Heavy equipment
- Fabricated steel components

Properties

- High-build protection in one coat
- Excellent adhesion to steel substrates
- Outstanding corrosion resistance
- Excellent water and moisture resistance
- Resistant to splash and spill of mild chemicals
- Good abrasion and impact resistance
- Compatible with epoxy and polyurethane topcoats
- Long service life in aggressive environments

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Semi flat / Gray & Red Oxide
<i>Density:</i>	1.45 kg/liter (Mixed)
<i>Volume solids %:</i>	70±2 %
<i>Theoretical spreading rate:</i>	3.5 – 4.6 - m ² /ltr / (2.4- 3) m ² /kg (150-200 micron DFT)
<i>Recommended DFT:</i> (Dry Film thickness)	150-200 micron
<i>Flash Point:</i>	>25°C
<i>VOC:</i>	< 250 g/L
<i>Surface dry:</i>	2 Hours approx. hour(s) 25°C/73.4°F 50% R.H
<i>Hard Dry:</i>	8 Hours approx. hour(s) 25°C/73.4°F 50% R.H
<i>Recoating time:</i>	6Hours approx. hour(s) 25°C/73.4°F 50% R.H
<i>Full cure time:</i>	7 days (23°C and 50 % R.H.)
<i>Application temperature:</i>	+8 °C/46.4° F and +35 °C/ 95°F
<i>Min. cure temperature:</i>	+10°C/50°F



Application Details

Mixing Ratio:	Component A: 4– Component B: 1 (By weight)
Pot life;	4 Hours @ 25°C
Application method:	Brush – Roller – air spraying - Airless Spray
Nozzle Size:	0.017" - 0.023"
Thinner:	Epoxy Thinner
Thinner Amount:	Brush (Do not thin) – Roller (10 %) - Airless spray (5-7 %) – air spraying (20-25 %)

Surface Preparation:

For optimum performance, all surfaces shall be clean, dry, and free from oil, grease, dirt, mill scale, rust, and other contaminants.

Abrasive Blast Cleaning:

- ISO 8501-1 Sa 2½ (Near White Metal Blast Cleaning)

Surface Profile:

- 40 - 75 µm

For maintenance work where blasting is not possible:

- Mechanical cleaning to St 3 standard.

PRECEDING COAT:

Nothing

Shelf life & Storage:

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Mixing:

Before mixing with the curing agent, stir the base thoroughly in order to prevent any possible settling after storage. After mixing it is equally important to maintain stirring to keep the wet paint as a Homogeneous mixture.

Legal Notice:

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