

UNIPRIME 100 HS-LT

UNIPRIME 100 HS-LT is a two-pack, high volume solid universal primer aiming for less volatile organic compounds. It is for cold temperature use type of UNIPRIME 100 HS. As this epoxy coating offers excellent resistant to water, seawater, abrasion and cathodic protection. It is suitable for all areas on newbuildings such as the underwater hulls, boottop, topsides, decks, holds, ballast tanks, etc. It can be overcoated with various kinds of finishes.

The coating is fully compliant with IMO Performance Standard for Protective Coatings.

【 Product Data 】

Suitable Use	Universal anti-corrosive coating for all areas on newbuildings (underwater hulls, boottop, topsides, decks, holds, ballast tanks, etc.)				
Type	Pure epoxy				
Ref. No.	QD				
Color	Gray, Red oxide, Buff, Bronze, Aluminum				
Gloss	Flat				
Volume Solids	76 ± 2% (ISO3233:1998)				
Dry Film Thickness	320 μm by two (2) coats				
Approx. Wet Film Thickness	421 μm (Dry 320μm)				
Theoretical Coverage	0.304 Kg / m ² 0.211 L / m ² (160 μ m)				
Specific Gravity	BASE : 1.52 ~ 1.62 HARDENER : 0.92 ~ 1.02 Mixed paint : 1.39 ~ 1.50				
Drying Time	Surface Dry	4 hours (-5°C)	3 hours (5°C)	2 1/2 hours (10°C)	1 1/2 hour (25°C)
	Dry Hard	24 hours (-5°C)	17 hours (5°C)	12 hours (10°C)	5 hours (25°C)
Interval before Overcoating (by self)	Min.	24 hours (-5°C)	17 hours (5°C)	12 hours (10°C)	5 hours (25°C)
	Max.	30 days (-5°C)	21 days (5°C)	21 days (10°C)	10 days (25°C)
Minimum Time before ballasting Min. DFT		15 days (-5°C)	10 days (5°C)	7 days (10°C)	5 days (25°C)
		80 μm Film thickness shall be controlled as close as NDFT which should be evaluated by the 90 / 10 rule in accordance with PSPC 2.8.			
Max. DFT		1,800 μm Maximum dry film thickness is total thickness of coating systems.			

【 Surface Preparation 】

- Steel Preparation** Use in accordance with our standard painting manual. Where necessary, remove weld spatter, smooth weld seams and remove sharp edges by rounding to a minimum radius of 2mm or subjecting to three pass grinding technique or at least equivalent process.
- Surface Cleaning** All surfaces to be coated should be clean, dry and free from contamination. High pressure fresh water wash or fresh water wash, as appropriate, and remove all oil / grease, soluble contaminants and other foreign matters.
- Water soluble salts limit equivalent to NaCl : ≤ 50 mg / m² of sodium chloride.
- Dust quantity rating "1" for dust size class "3", "4" or "5". Lower dust size classes to be removed if visible on the surface to be coated without magnification. (ISO8502-3:1993)
- Shop Primers** *Approved shop primers, compatible with UNIPRIME 100 HS-LT, must be applied in accordance with PSPC MSC 215 (82) to a minimum standard of Sa 2¹/₂ (ISO8501-1 :2007) and over blasting profile of 30 - 75 μ m (ISO8503-1/2:1988)*
- The shop primer which has passed a prequalification test shall be cleaned by sweep blasting, high-pressure water washing or equivalent method.*
- Welding part, corroded and damaged area to the shop primer must be cleaned by abrasive blasting to Sa 2¹/₂ (ISO8501-1:2007)*
- Non approved shop primers must be cleaned by abrasive blasting to Sa 2 (ISO8501-1 :2007) and at least 70% of the intact shop primer should be removed.*
- Welding part, corroded and damaged area to the shop primer must be cleaned by abrasive blasting to Sa 2¹/₂ (ISO8501-1:2007)*
- The surface profile on any areas where abrasive blasting has been carried out must be in the range of 30 - 75 μ m (ISO8503-1/2:1988)*
- Repair coating & touching-up** When exceeding the specified overcoating intervals, surface to be overcoated, should be roughened with power-tool before application.
- After Erection** Erection joint welds and adjacent areas must be abrasive blasted to Sa 2¹/₂ (ISO8501-1 :2007) or power tool cleaned to St 3 (ISO8501-1 :2007).
- Small damages, up to 2% of total area, may be prepared with power tool to St 3 (ISO8501-1 : 2007).
- Damages over 25sqm or over 2% of the total tank surface area must be abrasive blasted to Sa 2¹/₂ (ISO8501-1:2007).

【 Ambient Condition for Application 】

Ambient condition Max relative humidity : 85%
 Min. steel temperature above Dew point : 3 °C
 Applicable ambient temperature : -5 ~ 25°C
 Applicable surface temperature : 0 ~ 50°C

【 Unit Size 】

Japan : 20kg (BASE 17.2kg, HARDENER 2.8kg)
Worldwide : 16L (BASE 12.6L, HARDENER 3.4L)
Package may vary from country to country.

【 Flash Point 】

14°C

【 Shelf Life 】

BASE : 12 months under 23°C
HARDENER : 12 months under 23°C

【 ID Code 】

Gray BASE : DEH637QD
Red oxide BASE : DEH143QD
Buff BASE : DEH358QD
Bronze BASE : DEH202QD
Aluminum BASE : DEH203QD

HARDENER : DEH243QD

【 Safety 】

Take precautions to avoid skin and eye contact (i.e. gloves, goggles, face masks, barrier creams etc.)
Proper ventilation and protective measures must be provided during applications and drying to keep solvent vapor concentrations within safe limits.
Prior to use, obtain, consult and follow the SDS for this product concerning health and safety information.

<Note>

- 1) The information contained in this sheet is liable to modification from time to time in light of experience and our policy of continuous product development.
- 2) Store the paints in paint store.
- 3) Discoloration (blackening) may occur on the surface due to sulphide in ballast water / sludge. Its anti-corrosive performance is not adversely affected by the discoloration.
- 4) Prior to use, obtain, consult and follow the SDS of this product.