

PRODUCT DATA SHEET

HDLINE CUI



Description: One component, surface tolerant, inorganic copolymer coatings provides corrosion resistance under extreme temperature range from -185°C to 650°C (-300°F to $1,200^{\circ}\text{F}$). It prevents chloride-induced external stress corrosion cracking of insulated austenitic stainless steel. Excellent UV stability to prevent corrosion of non-insulated surfaces subject to atmospheric exposure.

Recommended use: The product is specially developed to prevent corrosion under insulation (CUI). This one of the costliest problems affecting the oil, gas and chemical industry today and accounts for the most unexpected downtime. In addition, unseen corrosion can lead to catastrophic failures including loss of life. It is recommended for long term protection of hot pipe work, equipment and other hot surfaces

Service temperatures: Maximum, dry exposure only: 600°C .

Physical Properties :

Colours/shade Nos.:	Metallic Dark Grey
Finish:	Flat
Volume solids, %:	$78 \pm 2\%$
Theoretical spreading rate:	$5.8 \text{ m}^2/\text{litre}$, 150 micron/6 miles
Flash point:	32°C
Specific gravity:	1.6 kg/litre
Surface-dry:	30 minutes at 30°C
Touch-dry:	90 minutes at 30°C
VOC:	395 g/l

Application details:

Mixing ratio:	Single pack
Application method:	Airless spray Air Spray/Brush
Thinner:	HD CUI Thinner
Thinner (max vol)	5 – 10 % (According to separate application)
Nozzle orifice:	.017"-.021"
Nozzle pressure:	170 bar [2480 psi] <i>(Airless spray data are indicative and subject to adjustment)</i>
Indicated film thickness, dry:	130 - 160 micron
Indicated film thickness, wet:	166 – 205 micron
Overcoat interval, min:	According to Specification
Overcoat interval, max:	According to Specification

Safety: Handle with care. Wear Necessary PPEs like safety shoes, gloves, goggles.

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Surface preparation:

Remove oil, grease and other contaminants by suitable detergent cleaning.
Remove salts, detergents and other contaminants by high pressure fresh water cleaning.
All damage of shop primer and contamination from storage and fabrication should be thoroughly mechanically/chemically cleaned prior to final painting.

New build:

Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
Remove dust, blast media and loose materials.

Maintenance and Repair:

Remove dust, blast media and loose materials.
Flash rust degree of maximum FR M (ISO 8501-4).
Spot abrasive blasting to min. PSa 2 (ISO 8501-2) / SP 6 (SSPC).
Minor areas can be cleaned by power tool to St 3 provided the surface is roughened and not polished.

Application conditions:

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Film thicknesses/thinning: (optional)

May be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate and may influence drying time and Overcoating interval.
Normal range dry is: 125 - 225 micron. Excessive film thickness must be avoided. HD CUI Thinner can be added at application to secure the low dry film thickness.

Overcoating note: (optional)

May be over coated when through dry: 24 hours 20°C/68°F
Before Overcoating after exposure in contaminated environment, clean the surface thoroughly with high pressure fresh water hosing and allow drying.

Storage:

Shelf life : 12 months (25°C)
Subject to re-inspection thereafter. Higher temperature during storage may reduce the shelf life and may lead to gelling in the tin. Store in tightly closed container in a dry, cool and well ventilated space, keep away from sources of heat and ignition.

This Product Data Sheet supersedes those previously issued.

Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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