

Intergard[®] 475HS epoxy

Delivering
Solutions through
Global Experience

- High solids epoxy intermediate
- Indefinite recoatability in colours
- Micaceous Iron Oxide variant for additional barrier protection
- 200 µm (8 mils) dft possible in one coat
- Low VOC
- Approved for use in NORSOK M501 System 1 specifications
- Designed to provide optimum adhesion for top coats



Intergard 475HS

Intergard 475HS has been formulated to accommodate the trend towards environmentally responsible coatings whilst not compromising the overall cost of the coating system. The high solids formulation allows the application of Intergard 475HS at 200 microns (8 mils) as an intermediate coat, thus eliminating a full coat of paint from those conventional specifications which call for 2 coats of epoxy intermediate.

This combination of economics and environmental responsibility makes Intergard 475HS the ideal product for use in fabrication shops.

Not only does Intergard 475HS come in a range of colours, that improve top coat coverage reducing the requirements of expensive top coats, but the indefinite overcoating interval allows the project engineer the maximum flexibility when scheduling on-site painting activities.

Intergard 475HS is typically applied over epoxy, zinc epoxy or inorganic zinc primers as part of a multi-coat system for steel surfaces such as:

- Offshore platforms
- Cranes
- Structural Steel
- Bridges
- Mining Conveyors

Technical Information

Colour	Light grey MIO and a selected range of colours	
Gloss Level	Matt	
Volume Solids	80%	
Film Thickness	125-200µm (5-8 mils) dry	
Mix Ratio	3.1 by Volume	
Temperature	Touch Dry	Min Recoat
5°C (41°F)	90 minutes	16 hours
15°C (59°F)	75 minutes	10 hours
25°C (77°F)	60 minutes	5 hours
VOC's	160 g/l UK - PG6/23(92), Appendix 3 1.73 lb/gal (207 g/l) USA - EPA Method 24	

Test Data

Test Type	Test Method	Specification Details	Typical Results
Gloss	ASTM D523 - "Standard Test Method for Specular Gloss"	1 x 200µm (8 mils) dft applied directly over a glass panel	3% (60° geometry)
Hardness	ASTM D3363 - "Film hardness by Pencil Test"	1 x 200µm (8 mils) dft applied directly to Sa2.5 (SSPC-SP6) blasted steel	Classification 4H
Impact	ASTM D2794 - "Resistance to the Effects of Rapid Deformation (Impact)"	1 x 200µm (8 mils) dft applied directly to Sa2.5 (SSPC-SP6) blasted steel	Direct Impact Resistance - 3.2 Joules
Abrasion	ASTM D4060 - "Abrasion Resistance of Coatings via the Taber Abraser"	1 x 200µm (8 mils) dft applied directly to Sa2.5 (SSPC-SP6) blasted steel	Average of 177mg weight loss per 1000 cycles using CS10 wheels and a 1Kg loading
Adhesion	ISO 4624	1 x 200µm (8 mils) dft applied directly over epoxy primer	Not less than 12 MPa (1740 psi)
Adhesion	ISO 4624	1 x 200µm (8 mils) dft top coated with 60µm (2.36 mils) of Interthane 990	Not less than 10 MPa (1440 psi)
Salt Spray	ISO 7253	1 x 200µm (8 mils) dft applied over zinc rich epoxy primer	No film defects and no rust creep at the scribe after 4000 hours

The above performance data has been compiled based on present experience of in-service product performance and upon performance data obtained under laboratory test conditions. Actual performance of the product will depend upon the conditions under which the product is used.