

MORSUN SILICONE MODIFIED HEAT RESISTING TOP COAT

PRODUCT CODE
MCS-HR-398
PRODUCT DESCRIPTION

A single pack silicone modified heat resistant topcoat. This product meets Danieli Specification

SUGGESTED USES

This product is ideal for application in areas where service temperatures do not exceed 250°C. Does not require heating between coats. Recommended for application on suitably primed steel surfaces (New construction & as a Maintenance coating) in a variety of Industrial and Marine environments

TECHNICAL DATA

Colour	Limited
Finish	Semi-glossy
Flash Point, Min	23°C
Volume Solids	42% ±2
Recommended DFT	20 - 25µ per coat (Two coats)
Theoretical Covering	16.8 M2 at 25µ
Mode of Application	Brush / Roller / Airless / Con. Spray
Airless Spray	Tip size: 0.017" – 0.021"
Fluid Pressure	2500 – 3000 psi
Thinner recommended	Thinner for HR Paint
Drying Time	Surface Dry : 1 hour
Hard Dry	2 Hours
Tack-Free	24 hours
Overcoating Interval	Overnight
Surface preparation	Ensure surface to be coated is free from all contaminants. De-grease & Blast clean new steel surfaces to Sa 2½ & prime with ZS-011. Ensure that the primed surface is clean, dry and free of Zinc Salts prior to application of HR-398. Failure of ZS-011 may require re-blasting of the surface. Zinc Epoxy Primers will also provide satisfactory anti-corrosion for in-service temperatures up to 150° C Over-application of HR-398 may lead to blistering at high temperatures
Shelf Life	12 months in sealed containers
Packing	20 litres, 4 litres
Limitation	On continuous exposure to temperature over 200°C discoloration could occur
Touch-up Paint	Touch-up can be done using the same paint after min 24 Hr curing. Apply it by brush.

PERFORMANCE TEST DATA

Test Type	Test Method	Requirement Details	Typical Results
Specular Gloss at 45° angle of incidence	IS-101	Film of 1 x 35-40 µ DFT applied on tinned MS panel. Film air dried for 48 Hr. followed by baking at 60°-70°C / 2 hr. Gloss level 31-50 units	42 units
Neutral Salt Spray	IS-101	On a grit blasted MS panel the following scheme is applied. Air dried for 48 hours followed by baking at 60°-70°C / 2 hr. 1 x 30-35 µ DFT Epoxy RO Primer, 1 x 20-25 µ DFT HR-398 finish. Panel subjected to Salt Spray test 500 Hr	No film defects after 600 hours with no sign of corrosion on underneath surface
Scratch Hardness	IS-101	Film of 1 x 20-25 µ DFT applied on 0.315 mm thick tinned panel, dried for 48 hours followed by baking at 60°-70°C / 2 hr. Panel subjected to test. Should pass min 500 gm test	No such scratch as to show the bare metal
Adhesion Flexibility	IS-101	Film of 1 x 20-25 µ DFT applied on 0.315 mm thick tinned MS panel and dried for 48 hours followed by baking at 60°-70°C / 2 hr. Subjected to test. Should pass ¼ inch cylindrical mandrel test	Passes with no cracking or detachment of film from substrate
Direct Impact	IS-101-5-3	Paint system over grit blasted MS plate, cured for 48 hours and followed by baking at 60°-70°C / 2 hr. 1 x 75 µ ZS-011, 2 x 20-25 µ HR-398. Ball of 60 mm dia (900 gm) falling from 2 m height	Passes 30 lb.inch test without cracking, flaking or detachment from panel or loss of adhesion
Heat Resistance	IS-101-7-3	Film of 1 x 20-25 µ DFT applied on cold rolled MS panel. Air dried for 48 hours. Coated panel subjected to 250°C / 24 Hr test	No cracking, blistering or flaking. When cut by knife blade paint film remains tightly adhered to panel. Slight colour change is observed
Water Resistance	IS-101	Film of 1 x 20-25 µ DFT applied on cold rolled MS panel. Air dried for 48 hours followed by baking at 60°-70°C / 2 hr. Edges sealed. Panel immersed in water for 24 hrs	No wrinkling or blistering observed
Out-Door Weathering, 12 months	IS-101	Paint system over grit blasted MS plate, cured for 48 hours. 1 x 75 µ ZS-011, 2 x 20-25 µ HR-398	No chalking, blistering, flaking or spotting. Slight colour change. Gloss retention approx. 50% of original value. No corrosion observed

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