



**ATIYEH PAYESH BARAK CHEMICAL COMPANY
(OXsos)**

Marine, Offshore, Industrial & Protective Coatings

Data sheet

OXSOHEAT RESISTANT COAT HT-700

Product Description

A high build, aluminum finish based on silicone resins. The product can withstand temperatures continuously up to 700°C. The product can be applied on primer-700 if a better resistance against corrosion is desired. For maximum heat resistance Heat resistant Paint HT-700 must be applied directly on the steel.

Physical Properties

<u>Color/Texture</u>	SILVER/MATT
<u>Volume Solids</u>	25%
<u>Specific gravity</u>	1.00 ± 0.05
<u>Flashpoint</u>	>25°C

	Dry film thickness per coat (μ)	Wet film thickness per coat (μ)	Theoretical spreading rate (m ² /l)
Range	25-35	100-120	10.0-8.3
Recommended	30	120	8.3

Note: Specific gravity of paint may vary slightly due to shade difference.

Application Data

<u>Guiding data Airless spray</u>	Pressure at nozzle: 120-180 bar. Nozzle size: 0.24- 0.48 mm Spray angle: 60- 80 degrees. Volume of thinner: 0-3 %.
<u>Guiding data Air spray</u>	Pressure: 3-5 bar. Nozzle size: 1.2-1.5 mm. Volume of thinner: 0 -10%
<u>Brush/Roller</u>	Suitable. Volume of thinner: 0 -5 %
<u>Thinner/ Cleaner</u>	OXSO special Thinner T-61. Avoid excessive thinning as it will result in lower sag resistance and slower cure.

Drying and Recoating Times¹

Substrate temperature	Touch dry	Dry to handle	Hard dry	Dry to recoat	Dry to recoat
				Minimum	Maximum ⁽²⁾
10° C	4 hours	10 hours	See note(1)	40 hours	Indefinite
23° C	3 hours	8 hours	See note(1)	32 hours	Indefinite
30° C	2 hours	6 hours	See note(1)	26 hours	Indefinite
40° C	1 hours	3 hours	See note(1)	20 hours	Indefinite

1)The product cures by a gradual rise in temperature. The following curing schedule is recommended.

- 30 minutes gradual rise to 100°C.
- 1 hour gradual rise to 200°C.
- 2 hours gradual rise to 400°C.

* The surface should be dry and free from salts and other contaminants prior to over coating . When in doubt ,consult your nearest OXSOS office.

Surface Preparation

Steel Oil and grease should be removed by solvent cleaning according to SSPC-SP1. Remove weld spatter and smooth weld seams and sharp edges as applicable. Abrasive blasting:min.Sa2.5-ISO 8501:1.Apply HT-700 immediately after the steel has been blasted and the quality of preparation has been approved.

Repair The surface must be dry and free salts, grease and other Contaminants prior to over coating. Remove any salts and dirt by fresh water washing. Corroded areas should be power tool cleaned to ISO-St2 Or blast cleaned to ISO-Sa2 or better.

Application Conditions

The temperature of the substrate should be at least 10°C and at least 3°C above the dew point of the air. Temperature and relative humidity should be measured in the vicinity of the substrate. Humidity should be below 80% RH. The maximum recommended surface temperature is approx. 35°C. Higher steel temperature is acceptable provided dry-spray is avoided by proper spray application and extra thinning if required. In extreme cases it may be necessary to reduce film thickness in order to avoid sagging. When applying the paint in confined spaces, provide adequate ventilation during application and drying. The temperature of the mixed paint should be at least 10°C; otherwise extra solvent may be required to obtain a proper application viscosity. The maximum temperature of paint before application should be 40°C.

Storage and Shelf Life

This product has the shelf life of 24 months in storage temperature of 10 -30°C. The cans are to be kept in a dry, cool, well ventilated space and away from source of heat and ignition. Cans must be kept tightly closed.

Worldwide Availability

The product is part of the common OXSOS product range but local availability is subject to confirmation. Although we strive to supply the same product through the world, slight modifications of the product in some cases may be necessary in order to comply with local conditions and national regulations. In such cases an alternative datasheet will issued.

Health and Safety

Observe the precautionary notices on the label of the container. A material safety data sheet is available upon request and national or local safety regulations should be followed. This product is intended for use by professional applicators. As a general rule, avoid skin- and eye contact by wearing overalls, gloves, goggles, mask, etc. Spraying should be carried out under well-ventilated conditions. This product contains flammable materials and should be kept away from sparks and open flames. Smoking in the area should not be permitted.

Disclaimer

The information in this data sheet is provided to the best of our knowledge. However, we have no control over either quality or condition of the substrate and other factors affecting the use and application of this product. Therefore, we cannot accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising from the use of this product. We reserve the right to change the product without notice.

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