



SILICON HR SILVER

Product description:

SILICON HR SILVER is a heat resistant paint, based on silicone resin and aluminium pigments, offering:

- Excellent heat resistance to temperatures up to 700°C,
- Good compatibility with inorganic zinc rich paints,
- Good weathering resistance,
- Easy application.

TECHNICAL DATA

Type:	Silicon heat resistant paint.
Recommended use:	As a heat resistant paint for piping, reactors, furnaces, flare stacks, burners, boilers, engines and exhausts.

Surface Preparation:	Surface to be painted must be clean (free from rust, dust, oil, grease, etc.) and completely dry. All welds should be relatively smooth without sharp edges and free of weld slag and spatter. Abrasive blast cleaning to ISO (8501-1) Sa 2½ and anchor profile of 40 - 50 microns are recommended for highest performance. For touch up, ISO (8501-1) St 3 or SSPC - SP11 with anchor profile of minimum 20 microns is recommended.
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Physical Data:	Colour: SILVER
	Flash point: 23°C
	Volume solids %: 28 ±2 (ISO : 3233 (1998))
	VOC (g/l): 632 Theoretical

Application Details:	Thinner: SILICON THINNER / CR/ACRI THINNER A
	Min. Temperature: 0 °C
	Surface temperature: Dew point + minimum 3°C
	Max. humidity: 90% R.H.
	Application Data: Airless spray, brush

For airless spray:	Tip No.: Graco 415
	Paint output pressure: 8.8 - 11.8 Mpa(g)
	Thinning: 0 - 10 % (by volume - Airless) / 0 - 5% (by volume - Brush)

Film thickness and spreading rate:	Min.	Max.	
Film Thickness, wet:	54	71	µm
Film Thickness, dry:	15	20	µm
Spreading Rate:	18,7	14,0	m²/l (theoretical)

Preferable preceding coating: SILICON HR SILVER, GALBON S-HB.

Preferable subsequent coating: -

Packing: One/Two Pack Product (depending on use, see below*)

Notes: * Curing accelerator should not be used when paint is used in baking conditions.

Add accelerator during mixing.

Base : curing accelerator = 100 : 1,21 (by volume)

Base : curing accelerator = 100 : 1 (by weight)



Overcoatability

Temperature	Drying time (at DFT 20 µ)	Overcoating interval (at DFT 20 µ)	Induction time	Pot life	Remarks
-5 °C	-	-	-	-	-
0 °C	-	-	-	-	-
5 °C	Surface dry:1 hour Hard dry 7 hours	Min.: 24 hours Max.: None	-	32 hours*	-
10 °C	Surface dry:50 min Hard dry 5 hours	Min.: 20 hours Max.: None	-	28 hours*	-
20 °C	Surface dry:30 min Hard dry 3 hours	Min.: 16 hours Max.: None	-	24 hours*	-
30 °C	Surface dry:20 min Hard dry 1 hour	Min.: 10 hours Max.: None	-	16 hours*	-

* Applicable for two pack use.

Paint film will reach full cure after 2 hours at 200°C. It should be heated gradually, e.g. by conducting steam into the steam pipe; do not heat abruptly until full cure.

Safety information: If Health, Safety and Environmental information is required a Health and Safety Data Sheet can be obtained from Chugoku Paints B.V.

Personal Protection advice and additional information can be obtained from the product Health and Safety Data Sheet which is available on request. The minimum safety precautions in dealing with this paint are:

- Observe the precautionary notices displayed on the container.
- Provide adequate ventilation.
- Avoid skin contact and inhalation of spray mist.
- If the product comes into contact with the skin, wash thoroughly with luke warm water and soap or suitable cleaner. If the eyes are contaminated, irrigate with water and seek medical advice immediately.
- Since the product contains flammable materials, keep away from sparks and open flames. No smoking should be permitted in the area.

Definitions:	Tolerances:	The numerical information quoted in this Technical Data Sheet is subject to normal manufacturing tolerances.
	Spreading Rate:	The spreading rate can vary depending on application conditions, the geometrical complexity of the structure, the weather conditions, etc.
	Volume Solids:	The volume solids figure given in this Technical Data Sheet is the percentage of dry film obtained from a given wet film thickness under specified application rate and conditions measured by the Chugoku Standard Method corresponding to ASTM method D2697 if not otherwise indicated.
	Overcoating Intervals:	The intervals given assume preparation consistent with good painting
	Hard dry:	The time taken until the product can be walked on without damaging it. Time taken until full mechanical strength is obtained is longer.
	V.O.C.:	Theoretical quantity of volatile organic compounds in g/l.

Disclaimer: Data, specifications, directions and recommendations given in this data sheet represent test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use is not guaranteed and must be determined by user. Product data is subject to change without notice and automatically void two years from issue. All legal relations of Chugoku Paints B.V. will be governed by the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. as last filed with the district court of Rotterdam and upon request they will be made available without charge. Chugoku Paints B.V. explicitly rejects the applicability of any General Conditions, which its contractual parties may use. Exclusive jurisdiction: competent Court in Rotterdam.

The Inspector will undertake to the best of their ability, to carry out assistance during application of the products delivered by Chugoku, by only rendering advice in connection with the application at site. The Inspector undertakes to carry out the project in a conscientious manner, but Chugoku and/or the Inspector will not accept any kind of liability, direct or indirect, if the project does not give the results expected. Under all circumstances, the Buyer remains responsible for the execution of the project. Any advice and/or assistance rendered by the Inspector will be subject to such (final) responsibility of the buyer, and moreover subject to the Uniform Terms of Sale and Delivery of Chugoku Paints B.V. Even when damages or delays have been caused by faults or negligence on the side of Chugoku and/or the Inspector, such will not result in any liability whatsoever of Chugoku or the Inspector. Liability of both Chugoku or the Inspector for any consequential damages is explicitly excluded.

Some products have been specially modified to adapt to specific European requirements with regard to European-, national- and local laws and regulations or with regards to specific European use requirements. As a result some physical properties in a TDS may differ from those given in the original Japanese TDS.