

Thermal Resist

Technical Information Page



Product presentation

It is a high temperature resistant, pure silicone top coat specially developed for use in industrial facilities, high temperature chimneys. 600°C heat resistant.

Surfaces to be used

Designed for industrial facilities exposed to high temperatures and corrosion.

Film thickness and theoretical diffusion area

	At least	Most	Recommended
Film thickness, dry (µm) Film	20	30	20
thickness, wet (µm) Theoretical	50	75	50
spreading area (m ² /l)	20	13.4	20

Physical properties

Color		Aluminum
Solid content	ASTM D2697-03	40%±2 (by volume)
Density (gr/cm ³)	ASTM D1475-13	1.06±0.02
Viscosity (25°C) KU	ASTM D562-10	90±5
Flash point	ISO 3679	35°C±2
Brightness (GU 60°C)	ASTM D523-14	Semi Mat (10-70)
Thinner		Must be thinned with 5-10% Cellulose
Heat resistance		Thinner up to 600°C

All results are mixed (A+B) results and may show slight variations in color.

Surface preparation

All surfaces must be clean, dry and free of dirt. The surface should be evaluated according to the ISO 8501 standard and prepared accordingly.

- **Painted surface**–The surface must be dry and clean. The old paint must comply with the ISO 12944 standard.

Methods of use

Don't spray	An airless gun or a conventional gun can be used Recommended for clipping
Brush	and small area applications. Attention should be paid to the application of the applied film thickness.

Application information with a hydraulic gun

Tip	0.38 – 0.48 mm (0.015-0.019") 15
Pressure	MPa/2100 psi

"CMT Group" LLC

Address: Badamdar highway. 27, Baku,
 Phone: Azerbaijan (+994 12) 502 45 50
 Fax: (+994 12) 502 45 51
 Email: office@cmt.com.az
 Website: www.cmt.com.az



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During drying

The drying time mainly depends on the weather conditions, the thickness of the applied layer and the number of applied layers. The table below shows the approximate drying time of the paint depending on the air temperature.

- The area to be painted should be well ventilated (Open air or free air circulation)
- The paint should be applied at the recommended thickness
- The thickness should be applied taking into account the number of layers to be applied.

Air temperature	10°C	23°C	40°C
Upper drying	45 min	30 min	15 min
Hard drying	3 hours	2 hours	1.5 hours
Applying the second layer, at least	5 hours	4 hours	3 hours

The information shown above has been determined by following the rules. The drying time may increase or decrease depending on the film thickness, ventilation, paint system on the surface, operations of the paint, mechanical stability and the amount of added thinner.

Typical paint system

Knarr Resist Primer	2 x 70 µm
Knarr Thermal Resist	1 x 50 µm

Other systems may be defined by application area.

Storage conditions

The paint should be stored in dry, cool, well-ventilated, unopened warehouses with high temperature and no possibility of sparks, taking into account the local conditions. It should be mixed well before use. Containers should be tightly closed. Shelf life (at 23°C) is 24 months.

Packaging image

It is produced as 16 KG.

The implementing operator

This product is intended for professional use. The applicator or operator must be experienced and knowledgeable about the product. The person in question shall mix and apply the paint according to the specification. Employees participating in the application must be provided with safety equipment.

Product color

There may be slight variations in product color from batch to batch. These types of products may have discoloration and chalking depending on atmospheric conditions and sunlight.

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Attention

The above information is based on results obtained from laboratory tests and field applications. In applications outside the company's control, the company is solely responsible for the quality of the paint. It is not responsible for problems that may arise from implementation and application errors.

Health and safety regulations

Follow the instructions on the container. Store in warehouses where there is no possibility of high temperatures and sparks. Use in well-ventilated areas. In case of contact with the skin during use, it should be washed with a suitable solvent and then with soap and water. In case of eye contact, wash with plenty of water and seek medical attention if necessary.

Note:"CMT Group LLC reserves the right to change the information on the technical data page without notice.

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