DATA SHEET 2225
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INFRALIT SI 8009-05

zinc silicone powder

PAINT TYPE

INFRALIT SI 8009-05 is based on silicone resin. The silicone resin gives the powder a very good resistance to heat. At elevated temperatures the powder melts, cures and forms the final paint film. INFRALIT SI 8009-05 contains also metallic zinc, which gives the powder good anticorrosive properties.

USAGE

INFRALIT SI 8009-05 is mainly suitable for use on steel surfaces blast-cleaned to preparation grade Sa 2½, when the constructions will be exposed to severely corrosive environments and high temperatures. In order to achieve good protection against corrosion INFRALIT SI 8009-05 needs to overcoated with INFRALIT SI 8009-02 powder coating or comparable heat-resisting paint.
The powder also has good weather resistance properties and can therefore be used both indoors and outdoors.

SPECIAL PROPERTIES

INFRALIT SI 8009-05 forms a heat resistant paint film that has good anticorrosive properties.
The powder can be used at temperatures up to 600°C. The powder has inferior mechanical properties than conventional powders. With this product we recommend using a fluidization hopper.

Especially when INFRALIT SI 8009-05 zinc silicone powder is used as a primer in painting system P242b, the paint film needs to be completely cured. If the powder is not cured completely adhesion between primer and top coat may be diminished.

TECHNICAL DATA

Colours	Dark grey
Gloss grades	Matt
Solids	100%
Specific gravity	abt. 2,1 kg/dm³
Spreading rate	abt. 15 - 30 m²/kg depending on the film thickness
Film thickness	50 - 80 µm above the peaks of the surface profile
Curing time	30 min/200°C (metal temperature)
Packages	20 kg
Storage	Store in dry and cool conditions max. 25°C.

SAFETY PRECAUTIONS

The powder itself is non-flammable, but with air it can form an explosive mixture that in presence of adequate ignition energy ignites. The lower explosive limit is about 60 g/m³ (Bundesanstalt für Materialprüfung). Ventilation of the spray booth should be adjusted so that the concentration of powder in the air is less than 50% of the lower explosive limit value. On calculation of the powder concentration in the spray booth, the powder deposited on the workpiece is not taken into account.
In order to avoid the discharge of powder from the booth into adjacent working spaces, the speed of air flow in the apertures of the booth must not fall below 0.5 m/s.
Spray painters should wear dust masks and protective gloves. Any spatter of powder on the skin should be washed off with water and soap.

PTO

DIRECTION FOR USE

Surface preparation and application

STEEL SURFACES: Remove grease and dirt. Thereafter the surfaces are blast-cleaned at least to preparation grade Sa 2½ (ISO 8501-1). The surface profile has to be at least medium coarse (G) SFS - ISO 8503-2. Remove the dust.

INFRALIT SI 8009-05 can be used with other paints or alone if the grey colour can be accepted. When used alone, the recommended minimum film thickness is 70 µm.

FILM PROPERTIES

The following results have been obtained with a film that has been cured 30 min/+200°C, film thickness 60-70 µm, steel plate:

Physical properties

Adhesion (cross-cut test, EN ISO 2409)	
- after 1 h / 600°C:	GT 0

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