

**INFRALIT SI 8011-02**
silicone powder

PAINT TYPE	INFRALIT SI 8011-02 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.
USAGE	INFRALIT SI 8011-02 silicone powder is used whenever especially good resistance to heat is required.
SPECIAL PROPERTIES	INFRALIT SI 8011-02 can be used at temperatures up to 400°C. The powder has inferior mechanical properties compared to conventional powders.

TECHNICAL DATA

Colours	Black
Gloss grades	Matt
Solids	100%
Specific gravity	Abt. 1,5 kg/dm ³
Spreading rate	15 - 30 m ² /kg depending on the film thickness
Film thickness	Max. 60 µm
Curing time	30 min/200°C (metal temperature)
Packages	20 kg
Storage	In dry and cool conditions max. 12 months depending on the temperature (5 - 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**

All pretreatments are possible. It should however be checked that the chosen pretreatment and INFRALIT SI 8011 meet the requirements of the task.

FILM PROPERTIES

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

Physical properties

Adhesion (cross-cut test, EN ISO 2409)

- after 100 h / 250°C:

GT 0

- after 1 h / 400°C:

GT 0

REMARKS

The powder can not be overcoated by itself due to weak intercoat adhesion.

The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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