

TEKNOZINC SS 1K / INFRALIT SI 8009-02 ZINC SILICATE PAINT / SILICONE POWDER SYSTEM, INFRALIT SI 8009-05 / SI 8009-02 SILICONE POWDER SYSTEM

P242

3 30.11.2017

TEKNOZINC SS 1K is a moisture curing zinc dust paint with ethyl binder.
 INFRALIT SI 8009-02 is a silicone powder that will cure at elevated temperatures (200-220 °C).
 INFRALIT SI 8009-05 is a zinc silicone powder that will cure at elevated temperatures (200-220 °C).
 The combination of zinc dust paint and silicone powder effectively protects the surface from corrosion and resists high temperatures up to +600°C
 INFRALIT SI 8009-05 zinc silicone primer is recommended to be cured completely. If powder is not cured completely the adhesion between primer and top coat may be diminished.

Teknos Coating System Symbol	P242a	P242b
EN ISO 12944-5 (2007) corrosivity category / durability range	C4/M	C4/H
The coating system structure:	ESIZn(R)70/1-SI60/1 FeSa 2 ½	SIzN(R)70/1-SI70/1 FeSa 2 ½
TEKNOZINC SS 1K Zinc Silicate paint	1 x 70 µm	-
INFRALIT SI 8009-05 Zinc silicone Powder	-	1 x 70 µm
INFRALIT SI 8009-02 Silicone Powder	1 x 60 µm	1 x 70 µm
Total film thickness	130 µm	140 µm
Coating system VOC, g/m ² TEKNOZINC SS 1K Zinc Silicate paint	53	-

Example of coating system marking: P242a – TEKNOZINC SS 1K 70/1 SI 8009-02 60/1 – FeSa 2½

USAGE

Teknos symbol	Typical use
P242a	Metal surfaces subjected to high temperatures in corrosivity category C4.
P242b	Metal surfaces subjected to high temperatures in corrosivity category C4.

Surface preparation Remove from the surfaces any contaminants that might be detrimental to surface preparation and painting. Remove also water-soluble salts by using appropriate methods, see EN ISO 12944, section 4. The surfaces are prepared according to the different materials as follows:

Hot-dip-galvanized surfaces: Blast-clean to grade Sa 2½.

Steel surfaces: Remove mill scale and rust by blast cleaning to preparation grade Sa 2½ (standard ISO 8501-1).

The profile of the substrate has to be rough enough to ensure good adhesion.

The place and time of the preparation are to be chosen so that the prepared surface will not get dirty or damp before the subsequent treatment.

Technical Data

Paint	TEKNOZINC SS 1K	INFRALIT SI 8009-05	INFRALIT SI 8009-02
Data Sheet No.	1861	2225	1528
Paint type	zinc rich ethyl silicate paint	zinc silicone powder	silicone powder
Colours	grey	grey	black
Finish	matt	matt	matt
Volyme solids %	60 ±2	100	100
Recommended film thickness - wet μm - dry μm	133 70 – 80	50 – 80	max. 70
Theoretical spreading rate	7,5 m ² /l	15–30 m ² /kg	15–30 m ² /kg
Drying time, +23°C / 50 % RH - dust free, (ISO 9117-3:2010) - touch dry, (DIN 53150:1995)	(dry film 60 μm) after ¼ h after ½ h	30 min/200 °C (metal temperature) See detailed information from data sheet	30 min/200 °C (metal temperature) See detailed information from data sheet
Overcoatble, 50 % RH	with INFRALIT SI 8009-02	with INFRALIT SI 8009-02	-
+5°C	after 7 d (RH 90 % or wetting of surfaces)	max. after 4 h	
+23°C	after 6 h (RH over 80 % or wetting of surfaces)	max. after 4 h	