

SZC-PR0680 Inorganic Zinc-rich Primer

Product Description

SZC-PR0680 is a 2k Self-curing inorganic zinc silicate primer.

Typical Use

It offers excellent anti-rust performance and heat resistance (up to 400°C), making it suitable for corrosive environments as per ISO 12944-2 C4 and C5. It can be used as an anti-corrosive primer for steel structures in industries such as bridges, petrochemicals, metal smelting, port machinery, marine engineering, and mechanical equipment.

Physical Parameter

Color available	Gray and customized.
Gloss	None
Flash Point°C (Component B)	29 (closed cup)
VOC (g/L)	550
Volume Solids	38±2%
Dry film Thickness(μm)	40~80
Density (g/ml)	1.89
Theoretical Coverage	7.6 m ² /L, 4 m ² /kg

Substrate Preparation

- (1) Steel surface should be free from oil, dust and any other contaminations.
- (2) Steel surfaces are blast cleaned to Sa 2½ (ISO 8501-1), roughness Ry5: 40~75μm, fine to medium(G) (ISO 8503-2)

Application Conditions

- (1) The substrate temperature must be above 0°C. Application temperature of at least 5°C is recommended.
- (2) For applications in confined or enclosed spaces, as well as in low-temperature and high-humidity environments, increasing ventilation during application and drying.

Application

Mixing Ratio (by Weight)		Hardener	Induction Time (23°C)	Pot Life (23°C)	Thinner
Part A	Part B				
16	4	GH701	/	4H	ZSX0910

Methods	Air Spraying	Airless Spraying	Brush	Roller
Dilution	5~10%	0~5%	5~10%	
Nozzle	1.5~2.5mm	0.33~0.53mm	Not applicable	
Pressure	0.3~0.5MPa	10~15MPa		

Drying Time

Temperature of substrate	5℃	10℃	23℃	40℃
Surface Dry Time	30Min	20Min	15Min	5Min
Full Drying Time	4H	3H	2H	1H
Min. Recoating Time	48H	48H	24H	24H

Recommended System

Epoxy resin coatings or other specified topcoats may be applied. Alkyd resins are strictly prohibited as topcoats to avoid saponification reactions that could cause coating peeling. When overcoating with an epoxy intermediate coat, first apply a mist coat followed by a full coat to prevent pin-holes in the film.

Storage

6 months in a dry, ventilated and cool place under sealed container, away from heat and fire.

For professional use only!