

Technical Data Sheet

HYDROSILICATE Zinc

Serie 160480

PRODUCT DESCRIPTION

Two-components water-based inorganic zinc rich primer in accordance to regulatory SSPC Paint 20 level 1 resistant to an operating temperature up to 400°C.

Is supplied with zinc dust ASTM D520 Type III. HYDROSILICATE Zinc contains 94% by weigh of zinc powder in dry film.

INTENDED USES

HYDROSILICATE Zinc can be used as a single coat or as a primer for systems completed with HYDROGUARD HB MIO and HYDROTHANE topcoat for protection of structures exposed up to CX class according to standard ISO12944.

Can be coated with HYDROTHERM brand topcoat for protection of steel structures operating up to 400°C. This product contributes to the Green Buildings standard credits for LEED certification.

TECHNICAL INFORMATION

Product type	Water based zinc rich silicate			
Colours	Grey			
Solids (% +/- 2)	56 (by Volume)	86 (by Weight)	SOV/VOC (g/liter)	18,96 Directive 2004/42/CE
Specific Gravity (g/liter +/- 100)	3250		SOV/VOC (g/liter) (calculated)	33,32 Directive 2010/75/CE
Flash Point (°C +/- 2)	not flammable			
Appearance	matt			
Temperature Resistance (°C)	up to 400			

APPLICATION DATA

Application Range (min - max) Typical	Film thickness per coat in micron		Theoretical spreading rate		Consumption
	Dry	Wet	m ² /l	m ² /kg	g/m ²
	50 - 150	90 - 268	11.2 - 3.7	3.4 - 1.1	-
	75	134	7.5	2.3	436

Room Temperature	min 10°C	Max 40°C	Relative Humidity	min 5%	Max 80%
Mixing Ratio	1 - 4 (by weight)		1,6 - 1 (by volume)		
Pot life	5 h				
Thinner/Cleaner	Clear water (ready to use do not thin).				

Application methods

Airless or conventional spray.

NOTES: mix all the Comp. A add slowly and always under the zinc powder. Mix accurately until complete homogenization of mixture. Pass the mixture through a sieve of 50 meshes. Continuously mix the paint at low speed during application. If it's applied to dry thicknesses exceeding 175 micron, the dry film can lead to mudcracking and Pull Off Test values lower than 5MPa.

Guideline for airless spray

Pressure at nozzle	15 Mpa (150 kp/cm ² , 2100 psi)
Nozzle tip	0,46 - 0,58 mm (0,018 - 0,023")

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