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INDUSTRIAL COATINGS

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Inorganic Zinc Silicate AT, series 760205

Description and main features

Inorganic zinc silicate (Zinc dust code 760202). Very high zinc content, featuring the best anti corrosive properties. Resistant to high temperatures (up to 400°C) and to organic solvents. Excellent resistance to weathering and abrasion.

Zinc dust pigment content of the non-volatile portion >80% according to standard ISO 12944-5:2007(E).

Classified as Type 1 - Level 2 according to standard SSPC Paint 20.

Low resistance to acids and alkalis.

Recommended use: as a primer in three coat paint systems for marine and industrial applications on blasted steel surfaces and equipment under severe chemical and environmental exposure; it can be over coated by epoxies, polyurethanes, vinyl epoxies, chlorinated rubbers.

Technical data

Finish	Flat									
Color	Grey									
Specific gravity	2,50 ± 0,05 kg/dm ³ at 23°C when cured according to ISO 2811-1 (*)									
Solid content	By weight 84 ± 3% when cured (*)									
	By volume 60 ± 3% when cured (*) <i>Indicative value only, as rule ISO 3233 can't be applied</i>									
VOC	160 g/Kg when cured (*)									
Viscosity	24" - 30" on the mix, at 23°C DIN cup n° 4 according to ISO 2431 (*) (**)									
Drying time	At 23°C ,50% RH, good ventilation, DFT 70 µm, <table style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">RH 50%</td> <td style="text-align: center;">RH 70%</td> </tr> <tr> <td>Touch dry:</td> <td style="text-align: center;">30 min.</td> <td style="text-align: center;">30 min.</td> </tr> <tr> <td>Full cure:</td> <td style="text-align: center;">60 h</td> <td style="text-align: center;">50 h</td> </tr> </table> <i>Touch dry according to internal method MS 035 based on ISO 4622</i>		RH 50%	RH 70%	Touch dry:	30 min.	30 min.	Full cure:	60 h	50 h
		RH 50%	RH 70%							
Touch dry:	30 min.	30 min.								
Full cure:	60 h	50 h								
	<i>Drying times can vary depending on DFT and environmental conditions. Low RH can impair the film curing</i>									



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Mixing and thinning

Mixing ratio	By weight: 1 part of 760205 with 2 parts of 760202 <i>Mix carefully before and after the curing process</i>
Pot life	> 6 h at 20°C - <i>Data vary with temperature and thinning.</i>
Thinning	5 % with 906008 winter type 5 % with 906007 summer type/slow <i>Chose the thinner according to the environmental and application conditions in order to allow at least 5-10' drying time.</i>

Application data

Method	Airless o air mix	
Airless or air mix	Pump ratio	30:1
	Nozzle orifice	017"
	Nozzle pressure	140-180 atm
	<i>Filters must fit the used nozzle.</i>	
<i>Indicative data; it is the user's responsibility to chose the right equipment.</i>		
Suggested Primers	None	
Suggested intermediate	Retron Acrilico series 773.000, Epoxy primer or intermediate series 706.250,706.300 AR, 703.000, Vinyl Epoxy primer series 718.000 or chlorinated rubber series 741.000. Over coating with alkyd paints is not recommended.	
Application conditions	<p>A sandblasting to SA 2 ½ according to ISO 8501-1: 1988 is strongly recommended; mix carefully the quantity to be applied. Pick up the mixture from a can continuously stirred to prevent a quick settling of the zinc dust, due to its high specific gravity. Application suggested between 5°C and 35°C and at least 3°C above dew point, RH>50%. If RH is too low, after 2h drying at 23 °C, it is possible to speed up the curing by spraying water or steam on the paint or in the air.</p> <p>The product can be over coated only after full cure. Premature over coating can cause the collapse of the system. Zinc over spray must be brushed off before recoating.</p> <p>Data vary with DFT and environmental conditions</p>	



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Recommended DFT

Recommended DFT	60-80 μm <i>DFT above 100-120 μm can lead to film cracking. If it happens, sandblasting and application have to be repeated.</i>
Theoretical consumption	approx. 250-330 g/m ² when cured (*)
Practical spreading rate	30-40% lower than the theoretical, by airless application.
Number of coats	ONE

Specific tests

Zinc content

> 80%. The product complies with ISO 12944-5:2007(E) for zinc – rich primers.

Friction factor according to CNR UNI 10011

>0,59

Heat resistance

400 °C

Storage indications

Shelf life: 4 months, provided the cans are kept sealed and undamaged, into a cool and dry place with temperature between 5 and 35 °C.

(*) indicative value, depending on the color - (**) parameters subject to testing for each batch

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