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Zinc Rich Epoxy Primer bcz, series 706181

Description and main features

Two pack zinc rich epoxy primer. High zinc content, featuring good anti corrosive and adhesion properties. Fast drying, solvent resistant, good mechanical strength, it withstands severe atmospheric exposure. The product must be over coated if exposed to welding fumes, acid spillages or chemical agents.

Recommended use: as a primer on two-three coat paint systems on blasted steel surfaces and equipment under severe chemical and environmental exposure; it can be over coated by epoxies, two pack acrylics, vinyl epoxies, chlorinated rubbers.

Technical data

Finish	Flat
Color	Grey
Specific gravity	2,33 ± 0,05 kg/dm ³ at 23°C cured, according to ISO 2811-1 (*)
Solid content	By weight 84 ± 3% when cured. (*)
	By volume 59 ± 3% when cured. (*)
VOC	160 g/Kg when cured (*)
Viscosity	Brookfield on the base at 23°C (spindle 5, 0.5 RPM) : > 300.000 mPas according to internal method MS 007 (*) (**)
Drying time	At 23°C ,50% RH, good ventilation, DFT 70 µm, Touch dry: 4 h according to internal method MS 035 based on ISO 4622 Hard dry: 20 h according to internal method MS 036 based on ISO 4622 (*)
	<i>Drying times can vary depending on DFT and environmental conditions</i>

Mixing and thinning

Mixing ratio	By weight: 100:10 with 701450 By volume : 3,2:1 with 701450 <i>Mix carefully before and after the curing process</i>
Pot life	> 8 h at 20°C - <i>Data vary with temperature and thinning.</i>
Thinning	5 % with 900033 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>



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Application data

Method	Airless or air mix; it can also be applied by brush	
Airless or air mix	Pump ratio	30:1
	Nozzle orifice	015-017"
	Nozzle pressure	140-180 atm
	<i>Filters must fit the used nozzle.</i>	
<i>Indicative data; it is the user's responsibility to choose the right equipment.</i>		
Suggested Primers	None	
Suggested intermediate	Retron Acrilico series 773.000, Epoxy primer or intermediate series 706.000, 706.250, 706.300 AR, 703.000 or 7073.000, Vinyl Epoxy primer series 704.000 or chlorinated rubber series 741.000.	
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 the zinc to quickly settle, due to its high specific gravity. Application suggested between 5°C and 35°C and at least 3°C above dew point. Substrate perfectly dry and clean, no rain nor fog. Temperatures lower than 5 °C can impair the film formation.</p> <p>The product can be over coated after 16 h from the application; no max over coating time. After a long time, a careful cleaning is needed before over coating. Over coating with alkyd paints is not recommended.</p> <p>Data vary with DFT and environmental conditions</p>	

Recommended DFT

Recommended DFT	60-80 µm
Theoretical consumption	approx. 235-315 g/m ² when cured (*)
Practical spreading rate	30-40% lower than the theoretical, by airless application.
Number of coats	ONE

Storage indications

Shelf life: 12 months (base only: 18 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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