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INDUSTRIAL COATINGS

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Zinc Phosphate Epoxy Primer L.Z., series 706.000 ZnP

Description and main features

Two pack zinc phosphate epoxy primer. The zinc phosphate ensures high protection against early rust formation and chemical corrosion.

Good wetting properties, high chemical and physical strength. Abrasion resistant and very high adhesion on concrete as well. Excellent adhesion on steel, hot dipped galvanized steel and, further to testing to ensure adhesion, on most of the metals. Suitable to contact with most of the hydraulic oils. Curing agent 701462 helps limiting the yellowing. The application on wet surfaces or in cold environment is not recommended, unless C.A. 701466 or 701471 are used.

Recommended use: as a primer on steel surfaces and equipment under severe chemical and environmental exposure; as a primer on concrete if C.A. 709602 is used; as a finish coat (with C.A. 701462) if chalking is not an issue.

Technical data

Finish	Semi-gloss (*)
Color	Buff, grey RAL 7038. Other shades on request (*) (**)
Specific gravity	1,48 ± 0,05 kg/dm ³ at 23°C, referring to 706069 RAL 7038 cured with 701455-701462-701466 1,60 ± 0,05 kg/dm ³ at 23°C, referring to 706069 RAL 7038 cured with 701471 according to ISO 2811-1 (*)
Solid content	By weight 71 ± 3% referring to 706069 RAL 7038 cured with 701455-701462; 67 ± 3% referring to 706069 RAL 7038 cured with 701466; 74 ± 3% referring to 706069 RAL 7038 cured with 701471 (*) By volume 52 ± 3% referring to 706069 RAL 7038 cured with 701455-701462; 46 ± 3% referring to 706069 RAL 7038 cured with 701466; 54 ± 3% referring to 706069 RAL 7038 cured with 701471 (*)
VOC	260 g/kg referring to 706069 RAL 7038 cured with 701471 (*)
Viscosity	Brookfield on the base at 23°C (spindle 4, 0.5 RPM) : 50.000-150.000 mPas according to internal method MS 007 (*) (**)
Drying time	At 23°C, 50% RH, good ventilation, DFT 60 µm, referring to 706069 RAL 7038 with 701455-701462 with 701466-701471 Touch dry: 10 h 8 h Hard dry: 48 h 48 h <i>Touch dry:</i> according to internal method MS 035 based on ISO 4622 <i>Hard dry:</i> according to internal method MS 036 based on ISO 4622 (*) <i>Drying times can vary depending on DFT and environmental conditions</i>



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Mixing and thinning

Mixing ratio	<p>By weight: 100:20 with 701455-701462-701466 100:8,8 with 701471</p> <p>By volume: 2,7:1 with 701455-701462-701466 6,5:1 with 701471</p> <p><i>Mix carefully before and after the curing process</i></p>
Pot life	> 8 h at 20 °C - <i>Data vary with temperature and thinning.</i>
Thinning	<p>5-15% by Thinner 900033 or 901040 winter type 5-15% by Thinner 903015 or 901042 summer type 5-15% by Thinner 903014 slow</p> <p>or when applied on top of Inorganic Zinc Silicate or Zinc Rich Epoxy</p> <p><i>Chose the thinner according to the environmental and application conditions in order to allow at least 5-10' drying time.</i></p>

Application data

Method	Airless o air mix <i>for brush or roller application, specific curing agent and thinners must be used</i>	
Airless or air mix	Pump ratio	30:1
	Nozzle orifice	013-015"
	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. It can be applied on top of Zinc Rich Epoxy series 706176-706192-706220-706181, Inorganic Zinc Silicates series 760205-760210.	
Suggested Topcoats	Retron Acrilico 777.000-778.000 or epoxy 700.000, 700.300,702.000, 705.000, 702.800 or Retron Polyurethane 732.000 or 733.000 It can be over coaed with intermediate epoxy series 706.250, 706.300 AR or 703.000.	
Application conditions	<p>With C.A. 701466 and 701471, application suggested between 0°C and 35°C and at least 3°C above dew point. Substrate perfectly dry and clean, no rain nor fog. A sandblasting to SA 2 ½ according to ISO 8501-1: 1988 ensures the best performance in terms of chemical-mechanical strenght. With C.A. 701455 and 701462, application suggested between 5°C and 30°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 between 12 and 72 h from the application, at 20°C, 50% RH, and good ventilation. After 72 h a roughening or a careful cleaning (according to the finish coat and painting system) is needed before over coating.</p> <p>Data vary with DFT and environmental conditions</p>	



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Recommended DFT

Recommended DFT	40-80 µm
Theoretical consumption	approx. 110-230 g/m ² referring to 706069 RAL 7038 cured with 701455-701462; approx. 130-260 g/m ² referring to 706069 RAL 7038 cured with 701466; approx. 120-240 g/m ² referring to 706069 RAL 7038 cured with 701471 (*)
Practical spreading rate	30-40% lower than the theoretical, by airless application.
Number of coats	ONE or TWO

Specific tests

This series is suitable as first coat in the ANAS B paint system.

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.

Usability according to DL 27.03.2006 n°161

No limitations. It belongs to category **j**) Two component, high performance solvent based paints.
2010 limit = 500 g/l

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

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