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RETRON ACRILICO Zinc Phosphate Primer, series 773.000

Description and main features

Two pack polyurethane zinc phosphate primer.

Good wetting properties and flexibility, high chemical and physical strength. Excellent adhesion on steel, concrete, hot dipped galvanized steel and, further to testing to ensure adhesion, on most of the metals. Zinc phosphate helps increasing the corrosion protection. Abrasion resistant. It can be used where optimal surface preparation is hardly achievable.

Recommended use: as a primer in severely corrosive exposure; as a primer-finish coat (with C.A. 730021) on most of the primers.

Technical data

Finish	Satin, 15-35 gloss according to ISO 2813 (*) (**)												
Color	Standard: White, RAL 1001, RAL 6011, RAL 7032 and RAL 7035. RAL shades on request (*) (**)												
Specific gravity	1,42 ± 0,05 kg/dm³ at 23°C, referring to 773020 RAL 7035 cured with 730021-730022; 1,48 ± 0,05 kg/dm³ at 23°C, referring to 773020 RAL 7035 cured with 730027 according to ISO 2811-1 (*)												
Solid content	By weight 70 ± 3% referring to 773020 RAL 7035 cured with 730021-730022; 75 ± 3% referring to 773020 RAL 7035 cured with 730027 (*)												
	By volume 53 ± 3% referring to 773020 RAL 7035 cured with 730021-730022; 59 ± 3% referring to 773020 RAL 7035 cured with 730027 (*)												
VOC	250 g/kg referring to 773020 RAL 7035 cured with 730027 (*)												
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 100 µm, referring to 7734046 RAL 7023												
	<table><tr><td></td><td>with 730021</td><td>with 730022</td><td>with 730027</td></tr><tr><td>Touch dry:</td><td>15 h</td><td>15 h</td><td>12 h</td></tr><tr><td>Hard dry:</td><td>48 h</td><td>32 h</td><td>30 h</td></tr></table>		with 730021	with 730022	with 730027	Touch dry:	15 h	15 h	12 h	Hard dry:	48 h	32 h	30 h
		with 730021	with 730022	with 730027									
	Touch dry:	15 h	15 h	12 h									
Hard dry:	48 h	32 h	30 h										
Touch dry: according to internal method MS 035 based on ISO 4622													
Hard dry: according to internal method MS 036 based on ISO 4622 (*)													
Drying times can vary depending on DFT and environmental conditions													



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Mixing and thinning

Mixing ratio	<p>By weight: 100:20 with 730021-730022 100:10 with 730027 100:25 with 730021 or 100:12,5 with 730027 as a primer-finish on hot dipped galvanized steel</p> <p>By volume: 3:1 with 730021-730022 6,5:1 with 730027 2,4:1 with 730021 or 5,3:1 with 730027 as a primer-finish on hot dipped galvanized steel</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>0-10% by Thinner 900033 or 901040 winter type 0-10% by Thinner 903015 or 901042 summer type 0-10% by Thinner 903014 slow</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	<p>Airless or air mix <i>for brush or roller application, specific curing agent and thinners must be used. Brush or roller are not recommended for the application of metallic shades as a primer-finish.</i></p>	
Airless or air mix	Pump ratio	45:1
	Nozzle orifice	015-017"
	Nozzle pressure	140-180 atm
	<p><i>Filters must fit the used nozzle.</i></p> <p><i>Indicative data; it is the user's responsibility to chose the right equipment.</i></p>	
Suggested Primers	<p>None. Zinc Rich Epoxy series 706176-706192-706220-706181, Epoxy primers series 706.000, 706.250, 706.300 AR, series 703.000 or series 7073.000, Vinyl Epoxy primers series 704.000.</p>	
Suggested Topcoats	Retron Acrilico series 778.000 or 777.000	
Application conditions	<p>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. When applied on steel, a sandblasting to SA 2 ½ according to ISO 8501-1: 1988 ensures the best performance in terms of salt spray resistance. When applied on hot dipped galvanized steel, a light sand blasting or hot hydro jetting and perfect rinsing are recommended. Galvanizing has to be carried out according to ISO 1461. When applied on old paints, mechanical tool cleaning to PSt2.</p> <p>The product has no maximum over coating time. Data vary with DFT and environmental conditions.</p>	



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Recommended DFT

Recommended DFT	80-120 μm
Theoretical consumption	approx. 215-320 g/m ² referring to 773020 RAL 7035 cured with 730021 o 730022 approx. 200-300 g/m ² referring to 773020 RAL 7035 cured with 730027 (*)
Practical spreading rate	30-40% lower than the theoretical, by airless application.
Number of coats	ONE or TWO <i>Some very clear shades such as RAL 1021-2004-3020 etc. may require two coats to achieve an even coverage, mostly on dark primers and uneven surfaces.</i>

Specific tests

Salt spray test according to ISO 9227:2006

Steel samples coated by Primer Retron Acrilico 773000 and Finish Coat Retron Acrilico series 778.000 or series 777.000 showed no defects after > 500 h. When applied on top of Inorganic Zinc Silicate 760205-760210 or Zinc Rich Epoxy 706176 it showed no defects after > 2000 h.

Continuous condensation test according to ISO 6270

Steel samples coated by Primer Retron Acrilico 773000 showed no defects after >1000 h. Hot dipped galvanized steel samples coated by Primer Retron Acrilico 773000 showed no defects after >1500 h.

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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