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Issued 08.01.2009

Vinyl Epoxy Primer, series 704.000

Description and main features

Two pack vinyl epoxy primer. The vinyl modification improves the speed of drying and the chalking resistance. 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. Curing agent 701462 helps limiting the yellowing. The application on wet surfaces or in cold environment is not recommended, unless C.A. 701471 is used.

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

Technical data

Finish	Semi-gloss (*)
Color	RAL shades - Other shades on request (*) (**)
Specific gravity	1,43 ± 0,05 kg/dm³ at 23 °C, referring to 704148 RAL 5010 cured with 701455-701462; 1,29 ± 0,05 kg/dm³ at 23 °C, referring to 704148 RAL 5010 cured with 701489; 1,53 ± 0,05 kg/dm³ at 23 °C, referring to 704148 RAL 5010 cured with 701471, according to ISO 2811-1 (*)
Solid content	By weight 68 ± 3% referring to 704148 RAL 5010 cured with 701455-701462; 60 ± 3% referring to 704148 RAL 5010 cured with 701489; 71 ± 3% referring to 704148 RAL 5010 cured with 701471 (*)
	By volume 49 ± 3% referring to 704148 RAL 5010 cured with 701455-701462; 43 ± 3% referring to 704148 RAL 5010 cured with 701489; 51 ± 3% referring to 704148 RAL 5010 cured with 701471 (*)
VOC	290 g/kg referring to 704148 RAL 5010 cured with 701471 (*)
Viscosity	On the base, at 23 °C DIN cup n°4: 60-120" according to ISO 2431 (*) (**)
Drying time	At 23 °C ,50% RH, good ventilation, DFT 60 µm, referring to 704148 RAL 5010 with 701455-701462-701489 Touch dry: 10 h Hard dry: 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 (*)
	with 701471 8 h 48 h
	<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 100:40 with 701489 100:8,8 with 701471</p> <p>By volume: 2,8:1 with 701455-701462 1,4:1 with 701489 6,8:1 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><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	
Suggested Top coats	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	
Application conditions	<p>With C.A. 701471, application suggested between 0 °C and 30 °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 salt spray resistance. With C.A. 701455, 701462 and 701489, 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. The product can be over coated between 12 and 90 h from the application, at 20 °C, 50% RH, and good ventilation. After 90 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. 115-235 g/m ² referring to 704148 RAL 5010 cured with 701455-701462; approx. 120-240 g/m ² referring to 704148 RAL 5010 cured with 701489; approx. 120-240 g/m ² referring to 704148 RAL 5010 cured with 701471 (*)
Practical spreading rate	30-40% lower than the theoretical, by airless application.
Number of coats	ONE or TWO

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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