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Vinyl Epoxy Intermediate, series 706.800

Description and main features

Two pack vinyl epoxy intermediate. The vinyl modification improves the speed of drying and the chalking resistance.

Good wetting properties and flexibility, high chemical and physical strength. Excellent adhesion on steel, hot dipped galvanized steel and, further to testing to ensure adhesion, on most of the metals. Curing agent 701461 helps limiting the yellowing.

Recommended use: as an intermediate coat on zinc rich epoxy primers or inorganic zinc silicates or epoxy primers to protect surfaces and equipment in severe chemical and environmental exposure; as a primer in moderately corrosive exposure; as a finish coat (with C.A. 701461) if chalking is not an issue.

Technical data

Finish	Semi-gloss (*) (**)
Color	RAL shades on request (*) (**)
Specific gravity	1,57 ± 0,05 kg/dm ³ at 23°C, referring to 706879 RAL 7035 cured with 701450-701451-701461 (*)
Solid content	By weight 76 ± 3% referring to 706879 RAL 7035 cured with 701450-701451-701461 according to ISO 2811-1 (*)
	By volume 58 ± 3% referring to 706879 RAL 7035 cured with 701450-701451-701461(*)
VOC	240 g/kg referring to 706879 RAL 7035 cured with 701450-701451-701461(*)
Viscosity	Brookfield on the base at 23°C (spindle 5, 0.5 RPM) : 150.000-350.000 mPas according to internal method MS 007 (*) (**)
Drying time	At 23°C ,50% RH, good ventilation, DFT 80 µm, referring to 706879 RAL 7035 with 701450-701461
	Touch dry: 6 h
	Hard dry: 20 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 701450-701451-701461</p> <p>By volume: 2,4:1 with 701450-701451-701461</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</p> <p>5-15% by Thinner 903015 or 901042 summer type</p> <p>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	Zinc Rich Epoxy series 706176-706192-706220-706181, Inorganic Zinc Silicates series 760205-760210, Epoxy primers series 706.000, series 703.000 or series 7073.000	
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 used as a primer, a sandblasting to SA 2 ½ according to ISO 8501-1: 1988 ensures the best performance in terms of salt spray resistance. Temperatures lower than 5 °C can impair the film formation.</p> <p>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	60-100 μm
Theoretical consumption	Approx. 160-270 g/m ² referring to 706879 RAL 7035 cured with 701450-701451-701461 (*)
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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