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## INDUSTRIAL COATINGS

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### 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

<b>Finish</b>	Semi-gloss (*)									
<b>Color</b>	RAL shades - Other shades on request (*) (**)									
<b>Specific gravity</b>	1,43 ± 0,05 kg/dm <sup>3</sup> at 23°C, referring to 704148 RAL 5010 cured with 701455-701462; 1,29 ± 0,05 kg/dm <sup>3</sup> at 23°C, referring to 704148 RAL 5010 cured with 701489; 1,53 ± 0,05 kg/dm <sup>3</sup> at 23°C, referring to 704148 RAL 5010 cured with 701471, according to ISO 2811-1 (*)									
<b>Solid content</b>	<b>By weight</b> 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 (*) <b>By volume</b> 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 (*)									
<b>VOC</b>	290 g/kg referring to 704148 RAL 5010 cured with 701471 (*)									
<b>Viscosity</b>	On the base, at 23°C DIN cup n°4: 60-120" according to ISO 2431 (*) (**)									
<b>Drying time</b>	At 23°C, 50% RH, good ventilation, DFT 60 µm, referring to 704148 RAL 5010 <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><b>with 701455-701462-701489</b></td> <td style="text-align: center;"><b>with 701471</b></td> </tr> <tr> <td><b>Touch dry:</b></td> <td style="text-align: center;">10 h</td> <td style="text-align: center;">8 h</td> </tr> <tr> <td><b>Hard dry:</b></td> <td style="text-align: center;">48 h</td> <td style="text-align: center;">48 h</td> </tr> </table> <p><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 (*)  Drying times can vary depending on DFT and environmental conditions</p>		<b>with 701455-701462-701489</b>	<b>with 701471</b>	<b>Touch dry:</b>	10 h	8 h	<b>Hard dry:</b>	48 h	48 h
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### Mixing and thinning

<b>Mixing ratio</b>	<p><b>By weight:</b> 100:20 with 701455-701462 100:40 with 701489 100:8,8 with 701471</p> <p><b>By volume:</b> 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>
<b>Pot life</b>	> 8 h at 20°C - <i>Data vary with temperature and thinning.</i>
<b>Thinning</b>	<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

<b>Method</b>	Airless o air mix <i>for brush or roller application, specific curing agent and thinners must be used.</i>	
<b>Airless or air mix</b>	<b>Pump ratio</b>	30:1
	<b>Nozzle orifice</b>	013-015"
	<b>Nozzle pressure</b>	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>		
<b>Suggested Primers</b>	None	
<b>Suggested Top coats</b>	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	
<b>Application conditions</b>	<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

<b>Recommended DFT</b>	40-80 $\mu\text{m}$
<b>Theoretical consumption</b>	approx. 115-235 g/m <sup>2</sup> referring to 704148 RAL 5010 cured with 701455-701462; approx. 120-240 g/m <sup>2</sup> referring to 704148 RAL 5010 cured with 701489; approx. 120-240 g/m <sup>2</sup> referring to 704148 RAL 5010 cured with 701471 (*)
<b>Practical spreading rate</b>	30-40% lower than the theoretical, by airless application.
<b>Number of coats</b>	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

*The information in this data sheet about the use of our products are based on our present scientific knowledge and practice. Zetagi accepts no commitment and / or responsibility on the final result of the work with our products. It is the customer's responsibility to verify the suitability of our products for the intended use. All the products and the advice given are subject to our general conditions of sale which we recommend you to request and read carefully. This data sheet replaces and annuls the previous ones: it is the user's responsibility to ensure that this sheet is updated prior to using the product. This data sheet is a translation; the Italian text of this document shall prevail over any translation thereof.*