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## INDUSTRIAL COATINGS

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### EPOX NP ALUMINIUM, series 7073311

#### Description and main features

Two pack Surface Tolerant MIO epoxy primer containing zinc phosphate. High build and high volume. Excellent adhesion on steel, hot dipped galvanized steel and, further to testing to ensure adhesion, on most of the metals. Best used where sand blasting is an issue, thanks to its wetting properties; it can be applied at high DFT even with high RH and low temperature.

High chemical resistance. Good resistance to most of the hydraulic oils up to 120 °C.

**Recommended use:** as a primer on blasted steel and hot dip galvanized steel; as a primer on old paints or where surface preparation is hard to get; as an intermediate coat on top of Inorganic Zinc Silicate or Zinc Rich Epoxy; it can also be used as finish coat where aesthetic is not a top requirement.

#### Technical data

<b>Finish</b>	Satin (*)
<b>Color</b>	Aluminium approx. RAL 9006. Other shades on request (*) (**)
<b>Specific gravity</b>	1,36 ± 0,05 kg/dm <sup>3</sup> at 23°C when cured with 701455 1,44 ± 0,05 kg/dm <sup>3</sup> at 23°C, when cured with 701477 according to ISO 2811-1 (*)
<b>Solid content</b>	<b>By weight</b> 76 ± 3% when cured with 701455 81 ± 3% when cured with 701477 (*)
	<b>By volume</b> 62 ± 3% when cured with 701455 68 ± 3% when cured with 701477 (*)
<b>VOC</b>	220g/Kg when cured with 701455 170g/Kg when cured with 701477 (*)
<b>Viscosity</b>	Brookfield on the base at 23°C (spindle 5, 0.5 RPM) : > 300.000 mPas according to internal method MS 007 (*) (**)
<b>Drying time</b>	<i>At 23 °C ,50% RH, good ventilation, DFT 100 µm</i> <b>with 701455</b> <b>Touch dry:</b> 15h <b>Hard dry:</b> 48h <b>with 701477</b> <b>Touch dry:</b> 10h <b>Hard dry:</b> 48h <i>Touch dry: according to internal method MS 035 based on ISO 4622</i> <i>Hard dry: according to internal method MS 036 based on ISO 4622 (*)</i>
	<i>Drying times can vary depending on DFT and environmental conditions</i>

#### Mixing and thinning

<b>Rapporto di catalisi</b>	<b>By weight:</b> 100:20 with 701455 100:8 with 701477 <b>By volume:</b> 2,7:1 with 701455 7,2:1 with 701477 <i>Mix carefully before and after the curing process</i>
<b>Pot life</b>	> 6 h at 20 °C - <i>Data vary with temperature and thinning.</i>



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<b>Thinning</b>	<p>10-15% by Thinner 900033 or 901040 winter type          10-15% by Thinner 903015 or 901042 summer type          10-15% by Thinner 903014 slow or when applied on top of Inorganic Zinc Silcate or Zinc Rich Epoxy  <i>Chose the thinner according to the environmental and application conditions in order to allow at least 5-10' drying time.</i></p>
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### 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>	45:1
	<b>Nozzle orifice</b>	015-017"
	<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>	Inorganic Zinc Silicate series 706205-760210 or Zinc Rich Epoxy series 706176 - 706192-706220-706181, Epoxy primers series 706.000, 703.000 or series 7073.000.	
<b>Suggested Topcoats</b>	Retron Acrilico 777.000-778.000	
<b>Application conditions</b>	<p>With C.A. 701477, application suggested between 0°C and 30°C and at least 3°C above dew point. With C.A. 701455, 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. A sandblasting to SA 2 ½ according to ISO 8501-1: 1988 ensures the best performance in terms of salt fog resistance. When used on top of old alkyd paints, a mechanical cleaning of the surface (PSt2 according to ISO 8501-2) is recommended. Maximum recoat time depends from local environmental conditions. The best adhesion will be achieved applying the topcoat before the primer's complete curing time. Anyhow, to obtain a good adhesion be sure that the surface to be painted is free from any contaminants and chalking.</p> <p>Data vary with DFT and environmental conditions</p>	

### Recommended DFT

<b>Recommended DFT</b>	80-200 µm
<b>Theoretical consumption</b>	approx.. 180-450 g/m <sup>2</sup> cured with 701455 approx. 180-450 g/m <sup>2</sup> cured with 701477 (*)
<b>Practical spreading rate</b>	30-40% lower than the theoretical, by airless application.
<b>Number of coats</b>	ONE or TWO



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### 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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