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INDUSTRIAL COATINGS

Issued 02.07.2015

FONDO RETRON W, serie 793.000

Description and main features

2-K water based polyurethane formulated with hydroxylated acrylic resin, to be catalysed exclusively with isocyanic catalist code 730060.

This product has excellent adhesion on steel and hot deep galvanized steel, with good chemical resistance, hardness and flexibility.

Recommended to ensure high-level protection of steel items in a single layer or, eventually, in a two layers system with SMALTO RETRON W series 798.000-797.000 or with SMALTO RETRON ACRILICO series 777.000-778.000.

We suggest to use plural-components application equipment due to the short pot life of the product.

Technical data

Appearance	matt, (*) (**)
Color	All the RAL color(*) (**)
Specific weight	1,52 ± 0,05 kg/dm ³ a 23°C, referred to the first component code 793401; 1,45 ± 0,05 kg/dm ³ a 23°C, referred to the catalysed product according to standard ISO 2811-1 (*)
Solid content	By weight 65 ± 3% referred to the first component code 793401; 65 ± 3% referred to the catalysed product (*)
	By volume 50 ± 3% referred to the catalysed product (*)
VOC	7,3 g/kg referred to the catalysed product (*)
Drying time	<i>At 23°C, 50% relative humidity, referred to a dry film thickness of 60µm</i>
	Touch free: 1,5-2 h Completely hard: 12 h <i>Touch free: according to internal method MS035</i> <i>Completely hard according to internal method MS036</i>
	<i>Drying time will change according to dry film thickness and environmental condition</i>



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Mixing and thinning

Mixing ratio	<p>By weight: 100:15 with 730060 By volume: 5:1 with 730060</p> <p><i>Mix carefully before and after catalysis.</i></p>
Pot life	<p>1-1,5 h at 20°C <i>Variable with temperature and thinning.</i></p>
Thinning	0-5% with water if necessary

Application data

Application	Spraygun with plural component equipment, airless or airmix.	
Airless or airmix	Pump ratio	30:1
	Tip	011-015"
	Outlet pressure	150-180 atm
	<i>Filters must be adeguated to the used tip.</i>	
<i>Indicative data; it is the user's responsibility to chose the right equipment.</i>		
Suggested primer	Selfpriming.	
Surface preparation, application conditions	<p>Application suggested between 15°C and 30°C and at least 3°C above dew point with relative humidity lower than 70%. Substrate perfectly dry and clean, no rain nor fog. When applied on steel, a sandblsting to Sa2½ according to ISO 8501-1:1988 ensures the best performance in terms of salt spray resistance. When applied on hot deep galvanised steel, a light sandblasting or hot hydro jetting and perfect rinsing are recommended.</p> <p>Can be overcoated with himself or with Smalto Retron W serie 797000/798000 after 8 hours minimum; with Smalto Retron Acrilico serie 777000/778000 after 8 hours minimum and 72 hours max. After 72 hours can be overcoated with Smalto Retron Acrilico serie 777000/778000 on a surface perfectly cleaned.</p>	

Recommended DFT

Recommended DFT	50-100 µm single layer
Theoretical consumption	ca. 145-290 g/m ² referred to the catalysed product (*)
Practical spreading rate	30-40% lower than the theretical, by airless application
Number of layers	One or two



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Storage indications

Shelf life: 8 months provided that the cans are kept sealed and undamaged into a cool and dry place with temperature between 10°C and 30°C.

Usability according to DL 27.03.2006 n°161

No limitations. It belongs to category j) Two component, high performance water based paints.
2010 limit = 140 g/l

(*) indicative values

(**) parameters subjected to testing for each batch.