

FAMILIES COVERED: 72-590, 72-591, 72-592, 72-593, 72-5B0, 72-5B3, 72-5L1, 72-5M0, 72-5M3, 72-5T3, 72-600, 72-800, 72-S00, 72-SB0, 72-SL1, 72-ST3

1 DESCRIPTION

POLYESTER thermosetting powder coatings without toxic components.

It has excellent resistance to weathering and was specially formulated for application onto aluminium for architecture or in other areas where high exterior durability is desired.

Available in different finishes and gloss levels, with a wide range of effects.

2 FAMILIES / FINISHES AVAILABLE

	Series	Approvals	Gloss ¹	Smooth	Textured	Smooth metallic ⁵	Textured metallic ⁵	
Standard Cure	MEGAPOL F 2000	Qualicoat P-366	Glossy	72-590		72-5M0 (DB)		
		GSB nº 282 a				72-5B0 (B)		
	MEGAPOL F SC			Semi-glossy	72-591			
				Satin	72-592			
	MEGAPOL F 4500		Qualicoat P-1596	Matt	72-593		72-5M3 (DB)	
			GSB nº 282 b				72-5B3 (B)	
	MEGAPOL 3500		Qualicoat P-769	Matt		72-5T3		72-5L1 (B)
GSB nº 282 c								
MEGAPOL CLASS 2		Qualicoat P-1130	Glossy	72-S00		72-SB0		
MEGAPOL F CLASS 2 TEXTURE		Qualicoat P-1776	Matt		72-ST3		72-SL1 (B)	
Low Cure	MEGAPOL F 2000	Qualicoat P-366	Glossy	72-600				
		GSB nº 282 a						
Ultra Low Cure	MEGAPOL F 2000	Qualicoat P-366	Glossy	72-800				

LEGEND: B) MEGABOND, DB) DRY BLEND

3 APPROVALS

Indoor Air (EN ISO 16000):

Classification: A+ ²

Reaction to Fire (EN 13501-1:2007+ A1:2009):

Classification: A2-s1, d0 ³

Qualisteelcoat (License nº PE-0067)

Part of QSC-system

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4 CHARACTERISTICS

Gloss (60°) ¹ (EN ISO 2813)	Glossy	> 70 GU
	Semi Glossy	> 60 and < 70 GU
	Satin	> 30 and < 60 GU
	Matt	< 30 GU
	Textured and metallic: this gloss classification does not apply	
Density	1.3 to 1.9 (according to colour and/or product)	
Particle size (EN ISO 13320)	Average diameter 35-50 µm	
Coverage	9 to 13 m ² /kg at 60 µm	
Application	Tribo ⁴ /Corona	
Recommended thickness	Minimum 60 microns For textured products, differences in thickness may cause differences in appearance.	
VOC	0,00-0,29% (Percentage by weight)	
Shelf life	72-800: 12 months 72-593, 72-5M3, 72-5B3: 18 months 72-5T3, 72-5L1, 72S00, 72-SB0, 72-SL1, 72-ST3: 24 months All other: 36 months	
	When stored in a dry place, preferably at temperatures below 30°C.	

5 TESTS

TESTS CONDITIONS: All tests are carried out under laboratory conditions, on degreased and chromated 0.8 mm thick aluminium panels (AA 5005), at 60 µm dft, cured accordingly with the respective family curing cycle (highest temperature).

Mechanical Resistance		
Properties	Tests	Results
Adhesion (EN ISO 2409)	Scotch tape 1 mm square	GT 0
Bending (EN ISO 1519)	Mandrel (5 mm)	No cracks
Impact test (EN ISO 6272-2)	1 kg at ≥25 cm	Good for both sides
Cupping test (EN ISO 1520)	Erichsen	>4 mm
Hardness (EN ISO 2815)	Buchholz	Minimum 80
Corrosion Resistance		
Kesternich (EN ISO 3231)	Corrosion creep less than 1mm from the scribe, after 24 cycles.	
Acetic Salt Spray (ISO 9227)	Maximum infiltration of 16mm ² over a 10cm scratch and a maximum individual infiltration length of 4mm, after 1000 hours exposure.	
Humidity chamber (EN ISO 6270-2)	Corrosion creep less than 1mm from scribe, after 1000 hours exposure.	
Boiling water / Pressure cooker	No defects or detachment, after 2 h / 1h respectively.	
Mortar test (EN 12206-1)	Easy to remove after 24 h without leaving any residues.	
Weathering		
Natural Weathering Florida, 5° South (EN ISO 2810)	Gloss retention greater than 50%, after 12 months exposure. For MEGAPOL Class 2: 50% after 3 years. Colour difference according to "Qualicoat" values.	
Accelerated Weathering Suntest (ISO 16474-2)	Gloss retention greater than 50%, after 1000 hours exposure. For MEGAPOL Class 2: 90% after 1000 hours. Colour difference according to "Qualicoat" values.	

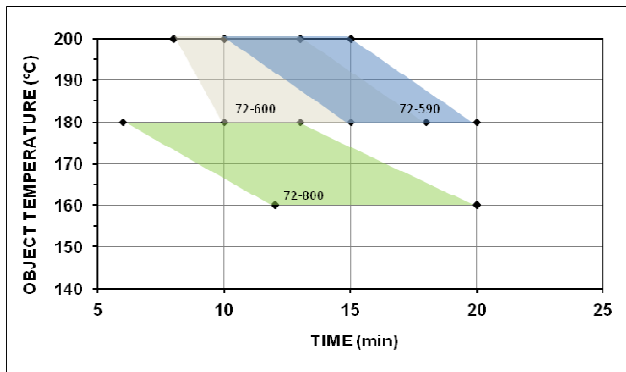
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6 CURING CYCLE (AT OBJECT TEMPERATURE)

MEGAPOL / MEGAPOL F 2000 / MEGAPOL F 4500 / MEGAPOL Class 2 / MEGAPOL F CLASS 2 TEXTURE

FAMILIES: 72-590, 72-591, 72-592, 72-593, 72-5B0 72-5B3, 72-5M0, 72-5M3, 72-600, 72-800, 72-S00, 72-SB0, 72-SL1, 72-ST3



72-590, 72-591, 72-592, 72-5B0, 72-5M0, 72-S00, 72-SB0, 72-SL1, 72-ST3

 15-20 min @ 180°C
 10-15 min @ 200°C

72-593, 72-5B3, 72-5M3

 15-20 min @ 180°C
 10-15 min @ 200°C

72-600

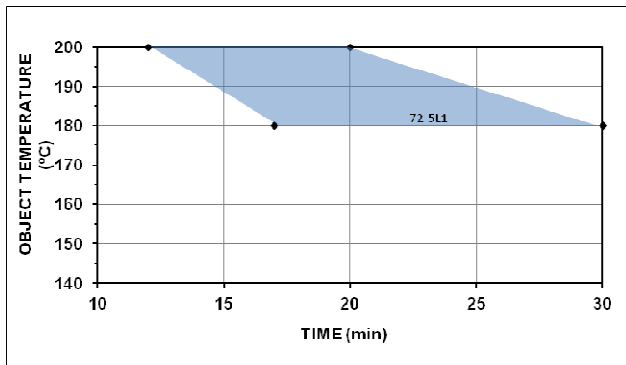
 10-18 min @ 180°C
 8-13 min @ 200°C

72-800

 12-20 min @ 160°C
 6-13 min @ 180°C

MEGAPOL 3500

FAMILIES: 72-5L1, 72-5T3



72-5L1, 72-5T3

 17-30 min @ 180°C
 12-20 min @ 200°C

7 HEALTH, SAFETY AND THE ENVIRONMENT

It is important to read the label on the container and the product MATERIAL SAFETY DATA SHEET (MSDS).

NOTES:

- (1) Within this series of products there can be gloss level variations of up to 5 G.U. from that specified. This is normal and does not affect the final product quality.
 - (2) Tests performed at LQAI – .MC: 37/13. Evaluation for application on aluminium. For specific systems it is necessary to carry out tests. It is recommended to read the test report.
 - (3) Tests performed at LNEC - 17/2014-URF. Evaluation for application on aluminium with tests of various levels of organic material in a range of glosses. The results were representative of the product ranges and colours of their families in commercialization, with the exception of clearcoats. For specific systems it is necessary to carry out tests. It is recommended to read the test report.
 - (4) Tribo application available for some colours. Please consult our Technical Services.
 - (5) For metallic effect powder coatings application it is recommended to read the Guide for Good Application of Metallic Effect Powder Coatings.
- It is recommended to read the facade maintenance guide.

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