

**FAMILIES COVERED:** 72590, 72591, 72592, 72593, 725B0, 725B3, 725L1, 725M0, 725M3, 725T3, 72600, 72800, 72S00, 72SB0, 72SL1, 72ST3

## 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 <sup>1</sup>	Smooth	Textured	Smooth metallic <sup>5</sup>	Textured metallic <sup>5</sup>
Standard Cure	MEGAPOL F GLOSS	Qualicoat P-366	Glossy	72590		725M0 (DB)	
		GSB n.º 282 a				725B0 (B)	
	MEGAPOL F SC		Semi-glossy	72591			
			Satin	72592			
	MEGAPOL F MATT	Qualicoat P-1596	Matt	72593		725M3 (DB)	
		GSB n.º 282 b				725B3 (B)	
Low Cure	MEGAPOL F MATT TEXT	Qualicoat P-769	Matt		725T3		725L1 (B)
		GSB n.º 282 c					
	MEGAPOL F SD GLOSS	Qualicoat P-1130	Glossy	72S00		72SB0 (B)	
Ultra Low Cure	MEGAPOL F SD MATT TEXT	Qualicoat P-1776	Matt		72ST3		72SL1 (B)
Low Cure	MEGAPOL F GLOSS	Qualicoat P-366	Glossy	72600			
		GSB n.º 282 a					
Ultra Low Cure	MEGAPOL F GLOSS	Qualicoat P-366	Glossy	72800			

SUBTITLE: B) MEGABOND, DB) DRY BLEND

## 3 APPROVALS

Indoor Air (EN ISO 16000):

Classification: A+ <sup>2</sup>

Reaction to Fire (EN 13501-1:2019):

Classification: A2-s1, d0 <sup>3</sup>

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## 4 CHARACTERISTICS

Gloss (60°) <sup>1</sup> (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 <sup>2</sup> /kg at 60 µm	
Application	Tribo <sup>4</sup> /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	72800: 12 months	
	72593, 725M3, 725B3: 18 months	
	725T3, 725L1, 72S00, 72SB0, 72SL1, 72ST3: 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 0.8 mm thick aluminium pretreated 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 16mm² 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 F SD: 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 F SD: 90% after 1000 hours. Colour difference according to "Qualicoat" values.	

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**6 CURING CYCLE**

MEGAPOL / MEGAPOL F GLOSS / MEGAPOL F MATT / MEGAPOL F SD GLOSS / MEGAPOL F SD MATT TEXT

FAMILIES: 72590, 72591, 72592, 72593, 725B0, 725B3, 725M0, 725M3, 72S00, 72SB0, 72SL1, 72ST3

30-35 min @ 160 °C

15-20 min @ 180 °C

10-15 min @ 200 °C

FAMILIES: 72600

30-35 min @ 160 °C

10-18 min @ 180 °C

8-13 min @ 200 °C

FAMILIES: 72800

12-20 min @ 160 °C

6-13 min @ 180 °C

4- 6 min @ 210 °C

MEGAPOL F MATT TEXT

FAMILIES: 725L1, 725T3

30-35 min @ 160 °C

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 no LGAI Technological Center S.A. – Report: 21/32306102-2. 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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