

# 71ST3(4) Textured Architecture Coatings: (RWMXD)

Review : January 2021

## 1 DESCRIPTION

**Textured Super Durable POLYESTER** thermosetting powder coating TGIC free. Specially designed for architectural applications where extremely high outdoor durability is required.

Available in matt and different colours.

### Benefits:

- Excellent UV and weathering resistance.
- Outstanding gloss retention and resistance to colour change.
- Mechanical an abrasion resistance.
- Corrosion resistance.
- Chemical resistance.
- Water condensation resistance.
- Resistance to humid atmospheres containing sulphur dioxide.

### Uses:

- For architectural aluminium components like windows, façade frames and doors.
- Any other application where an excellent outdoor durability, colour and gloss retention are required, like decorative metal railings, metal roofs, wall panels, curtain walls, louvers, elevator components, storefronts, metal-framed skylights, garden, cabinets, industrial equipment etc.

## 2 PROPERTIES

<b>Gloss (60°) (EN ISO 2813) GU</b>	Textured finishes visually
<b>Density (g/cc) :</b>	1,2 to 1,5
<b>Particle size (EN ISO 13320)</b>	Average diameter 35-54 µm
<b>Recommended Thickness</b>	Minimum 60 µm
<b>Coverage</b>	9 to 13 m <sup>2</sup> /kg at 60 µm
<b>Type of application</b>	Corona /Tribo*
<b>VOC</b>	0,00-0,29% (Percentage by weight)
<b>Curing cycle</b>	15'-20' at 180°C / 10'-15' at 200°C
<b>Storage Stability</b>	18 months  (In a sealed bag when stored in a dry place, preferably at temperatures below 30°C)

(\* ) Check the specific product technical data sheet

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### 3 TESTS

**Tests conditions:** All tests are carried out under laboratory conditions in degreased 0.8 mm aluminium panels (AA5005) at 60 µm, cure accordingly with the respective family curing cycle.

MECHANICAL RESISTANCE		
Properties	Tests	Results
Dry Adhesion (EN ISO 2409)	Adhesive tape 2 mm square	0
Wet Adhesion (EN ISO 2409)	Boiling water	Any sign of blistering or detachment
Bending (ISO 1519)	Mandrel (5 mm)	No detachment following the tape pull adhesion test
Impact test (EN ISO 6272-2)	1 kg at 25 cm on reverse side	No detachment following the tape pull adhesion test
Cupping test (EN ISO 1520)	Erichsen	Minimum 5 mm. No detachment following the tape pull adhesion test
Hardness (EN ISO 2815)	Buchholz	Minimum 80
Scratch and mar resistance	Martindale	Gloss retention: 60% Structured (all classes) / 40 % class 1 / 30% class 2
CORROSION RESISTANCE		
Acetic Salt Spray resistance (ISO 9227)	Maximum infiltration of 16 mm <sup>2</sup> over 10 cm scratch and a maximum individual infiltration length of 4 mm, after 1000 hours exposure.	
Mortar Test (EN ISO 12206-1)	No change in appearance / colour after the test.	
WEATHERING		
Natural Weathering Exposure in Florida (EN ISO 2810)	Gloss retention : After 1 year: At least 75% / After 2 years: At least 60% /After 3 years: At least 50 % Colour difference: After 3 years ΔE according to Qualicoat Specifications limits described in Appendix A7	
Accelerated Weathering Suntest (ISO 16474-2)	Gloss retention at least 90%, after 1000 hours exposure Colour difference: Not greater than 50%of the limits prescribed in Qualicoat Specifications Appendix A7	
Resistente to humid atmospheres containing sulphur dioxide (ISO 3231)	No infiltration exceeding 1 mm on both sides of the scribe , no change in color or blisters in excess of 2 (S2) according to ISO 4628-2	
Constant climate condensation water test (ISO-6270-2)	No blistering in excess to 2 (S2) according to ISO 4628-2. The maximum infiltration at the cross is 1 mm.	
Water Spot Test	The colour change ΔE shall be less than 4	

### 4 HEALTH, SAFETY AND THE ENVIRONMENT

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

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