govesan
powder coatings

TECHNICAL DATASHEET

71S Architecture Coatings Class II (RW-D)

Review : July 2019

1 DESCRIPTION

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

71S Architecture Coatings comply with the **QUALICOAT** requirements for durable architectural powder **coatings Class II.** Available in different gloss levels, finishes and 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 applications where an excellent outdoor durability and colour and gloss retention are required, like decorative metal railings, metal roofs, wall panels, curtain walls, louvers, elevator components, storefronts, metal-framed skylights, garde, cabinets, industrial equipment etc.

2 APPROVALS

QUALICOAT is the quality label for powder coatings and liquids on aluminium or aluminium alloy for architectural applications.

License Number	Class	Gloss	Finishes	Additional	Family covered *
P-1404	II	Matt	Textured		RWMXD 71ST3(4)
P-1427	II	Satin	Smooth		RWSD 71S92

*(W: Polyester without TGIC / S: Satin / M: Matt / X: Textured / D: Superdurable)

QUALISTEELCOAT (QSC): All CIN Qualicoat licences are approved as topcoat for QSC system licenses **PE-0113** and **PE-0114** over the primer RPSP 71P02 Series to protect and decorate galvanized steel. The system is classify as **C5** (very high corrosivity) for high durability (15-25 years).

UL: *Organic Coatings for Steel Enclosures for Outdoor Use Electrical Equipment (UL1332)*. Polyesters TGIC free with high gloss (60-100 %) comply with the UL homologation (RWSD 71S92 Series). The metallic, transparent, and textured coatings are not included. (Baking schedules 15´/180°C to 10´/210°C. Minimum thickness 60 µm)
The coating provides protection against atmospheric corrosion at least to that provided by a hot dipped mill galvanized coating meeting the G90 coating designation in ASTM A653.

CIN

CIN Govesan, S.L.U. - Calle del Oro, 76 - Pol. Ind. Sur – Apdo. Correos, 51 - 28770 Colmenar Viejo - Madrid - España T +34 918 47 38 00 – F +34 918 463 252 - customerservice@cin.com
Registro Mercantil de Madrid, Tomo 34.693, Folio 161, Hoja M-624038, Inscripción 1ª – C.I.F.: B-87550794

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3 PROPERTIES

Gloss (60˚) (EN ISO 2813) GU *	Matt: 0-30 / Satin :31-70 (To structured finish and highly metallic does not apply, then visually)
Density (g/cc) :	1,2 to 1,5
Particle size (EN ISO 13320)	Average diameter 35-54 µm
Recommended Thickness	Minimum 60 µm
Coverage	9 to 13 m^2/kg at 60 µm
Type of application	Corona /Tribo**
VOC	0,00-0,29% (Percentage by weight)
Curing cycle	**RWMXD 71ST3(4)** 15´-20´ at 180°C / 10´-15´ at 200°C **RWSD 71S92** 15´-20´ at 180°C / 10´-15´ at 200°C
Storage Stability	18 months for RWMXD 71ST3(4) 24 months for matt type RWSD 71S92 In a sealed bag when stored in a dry place, preferably at temperatures below 30ºC.

(*) 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.

(**) Check the specific product technical data sheet.

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4 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**
Adhesion (EN ISO 2409)	Adhesive tape 2 mm square	0
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
CORROSION RESISTANCE		
Acetic Salt Spray resistance (ISO 9227)	Maximum infiltration of 16 mm^2 over 10 cm scratch and a maximum individual infiltration length of 4 mm, after 1000 hours exposure.	
Boiling Water/Pressure Cooker (EN 13438)	No defects, detachment or blistering in excess of 2 (2) according to ISO 4628-2	
Mortar Test (EN ISO 12206-1)	Easy to remove after 24 h without leaving any residues.	
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	
Resistante to humid atmospheres containing sulphur dioxide (ISO 3231)	No infiltration exceeding 1 mm on the side 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 maximun infiltration at the cross is 1 mm.	

5 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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