

Technical Data Sheet: QD

Date: Feb-21

Qualicoat Approved Architectural Range

Certificate Nos: P-0656, P-0676, P-1084, P-1097
Product tested and approved for the quality mark

Introduction

Inver Powder Coatings' Class 1 'Qualicoat' approved range of Architectural Polyesters are recommended for use on aluminium exterior situations where the 'Qualicoat' specification applies. Inver Powder Coatings' attention to formulation and particle size control ensures optimum transfer efficiency, enabling applied costs to be better controlled.

Colour

Wide range of RAL colours available and specials manufactured to order

Gloss

Three levels available (all measured at an incident angle of 60°)

Category 1:	< 30 +/-5 units
	31 – 70 +/- 7 units
Category 2:	including "BR"
	Metallics
	71 – 100 +/- 10
Category 3:	units

(Permissible variation from the nominal value)

Film Properties

Meets the following criteria:

Adhesion	ISO2409:1992 (2mm)	Gt 0
Indentation	ISO2815:1973	Min 80
Mandrel	ISO1519:1995 (5mm)	No cracking or
bend	100101311333 (311111)	detachment
Impact	ASTM D2794: 1969	No cracking or
····pace	(2.5Nm)	detachment
Kesternich	ISO3231:1993	Max 1mm
	(0.21.S02-24 cycles)	corrosion creep
	(*	from scribes
Acetic Acid	ISO9227:1990	Max 16mm2
Salt Spray	(1000hrs)	over 10cm
. ,	,	length of scribe
Machu	Qualicoat method B1	Max corrosion
	(j)	creep 0.5mm
Accelerated	ISO1 1341-1994	Loss of gloss max
Weathering	Luminous intensity	50% of original
	550 W/m2 (290-	value.
	800Nm)	Colour change as
		defined in
		Qualicoat table 2
Weathering	Florida 5° south	Residual gloss
	facing 1 year	50% of original
	(ISO2810:1974)	(min)
Resistance	ASTM B3260 (24hrs)	No residue after
to Mortar		removal
Resistance	2 hrs deionised water	No defects or
to boiling	or 1 hr pressure	detachment
water	cooker	
Condensed	DIN50017:1982	No blistering
water	(1000 hrs) Max 1mm	
	under film creep	
Solvent	30 secs	Rating 3-4
(xylene)		
Sawing,		No cracking or
Milling,		chipping
Drilling		/ u = -
Cupping	ISO1 520: 1995 5 mm	(typically 7-9
Test	min	min)

Substrate used for these tests was aluminium alloy AA5005-H24 with a thickness of 0.8mm pre-treated according to DIN 50939: 1988

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Specific Gravity

1.4 – 1.8 depending on colour, gloss etc

Coverage

9 - 12 sq. m/kg @ 50 microns (100% utilisation assumed) depending on colour and gloss

Film Thickness

Minimum 60 microns

Minimum Curing Conditions (Minutes at object temperature)

(initiation at object temperature)		
	Full Gloss Cat 3 &	Matt Cat 1
	Semi Gloss Cat 2	
210°C	5 mins	8 mins
200°C	6 mins	10 mins
190°C	8 mins	13 mins
180°C	10 mins	Not
		recommended
170°C	13 mins	Not
		recommended

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Maximum Cure Conditions

	Full Gloss Cat 3 &	Matt Cat 1
	Semi Gloss Cat 2	
210°C	5-15 mins	8-15 mins
200°C	6-16 mins	10-20 mins
190°C	8-18 mins	13-23 mins
180°C	10-20 mins	Not
		recommended
170°C	13-23 mins	Not
		recommended

Storage

Store in dry, cool conditions, preferably below 30°C. Shelf life under these conditions will be approx 24 months.

Pre-treatment

Conversion coating is essential in all cases. A chromate or chromate-free pretreatment approved by Qualicoat or GSB should be used prior to powder coating.

Application Guidelines

Inver UKs' 'Qualicoat' approved powder coatings are suitable for use with all known electrostatic powder spraying equipment designed for thermosetting powder application.

Individual Product Information

Reference Number	QG810099SG
Description	RAL 7035 LIGHT GREY POLYESTER SEMI GLOSS
Gloss Level (60°)	65-75
Specific Gravity	1.42 +/-0.10
Stoving Schedule	10 MINS @ 180C Metal Temperature
Film Thickness	60-80 microns
SDS No:	

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Health & Safety

We recommend all users of powder coatings to refer to the Code of Safe Practice: Application of Powder Coatings by Electrostatic Spraying (published by the British Coatings Federation of Great Britain Ltd) and our appropriate Health & Safety Data Sheet.

