

CRYLCOAT® 2645-3

Low demand HAA polyester for Architectural, blooming free



A new solution for architectural powder coating



CRYLCOAT® 2645-3 extends the range of carboxylated polyester resins for architecture applications with a low acid value to meet all the requirements for blooming-free architectural outdoor applications.

Product Specification	2645-3
Brookfield viscosity @ 200 °C (mPa.s)	7500
Acid value (mg KOH/g)	23
Glass transition temperature (°C)	62

Value Proposition

- Low demand HAA-hardener, curing at 180°C
- High blooming resistance
- Good mechanical properties
- Good flow and surface appearance
- Improved water-spot resistance
- Excellent storage stability

Starting point formulation	Weight
CRYLCOAT® 2645-3	615
Primid XL 552	22
Blanc Fixe F (Sachtleben)	100
Benzoin	3
MODAFLOW Powder 6000	10
Kronos 2160	250

Technical characteristics	2645-3	2640-3
Gel time (sec) in RAL 6005	152 @ 200 °C	200 @ 200 °C
Inclined plate flow @ 180 °C	36 mm	31 mm
Storage stability @ 40 °C, (fresh/28 days) (0 = no lumping, 5= strong lumping)	0 / 0 No lumping	0 / 0 No lumping
Curing condition (object temperature)	180 °C x 10 min	180 °C x 10 min
PCI (powder smoothness standards)	4	4
Gloss (G 20° / G 60°)	82 / 95	85 / 96
Impact (i.p.) D/R 24 h on chromated Alu	70 / 70	70 / 50
Cupping test Erichsen (mm)	> 5	5
Degassing limit with RAL 6005 pigmentation (µm)	120 - 125	125 - 130
Remaining gloss G 20° / G 60° after blooming test 1 h @ 140 °C	83 / 92	35 / 42
Water-spot resistance test in RAL 6005: dL	3.4	8.3
QUV-B 313 (0.75), RAL 6005 gloss-retention after 300 hrs in %	55	40

CRYLCOAT 2645-3 available now for customers in Europe, Middle East and Africa, low demand HAA applications blooming free.

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