

SETAPOLL™ SP103

Powder Coating Resins



SETAPOLL SP103 - A carboxyl functional polyester resin for exterior, standard bake applications when combined with β -hydroxyalkylamide (HAA) at 95:5 ratio and curing temperature of 180°C. It can also be cured with TGIC at 93:7 ratio, PT910 at 92:8 ratio and epoxy resin at 70:30 ratio.



Property	SETAPOLL SP103	Unit	STM ⁽¹⁾
Acid Value	33-38	mg KOH/g	AV002
Viscosity (@ 200°C)	65-90	Poise	VIS001
Colour	4 max	-	COL002
Tg ⁽²⁾	68	°C	DSC

(1) STM-Standard Test method of determination (by request)

(2) Typical value for glass transition temperature

Key Features

- Versatile, multi cure functionality •
- Good level of exterior durability in all colours •
- Tribo •
- Moisture Resistant •
- 10 minutes at 180°C cure with HAA •
- High Tg •

SETAPOLL™ SP103

Target Applications



General metal



Versatile for indoor



Outdoor application

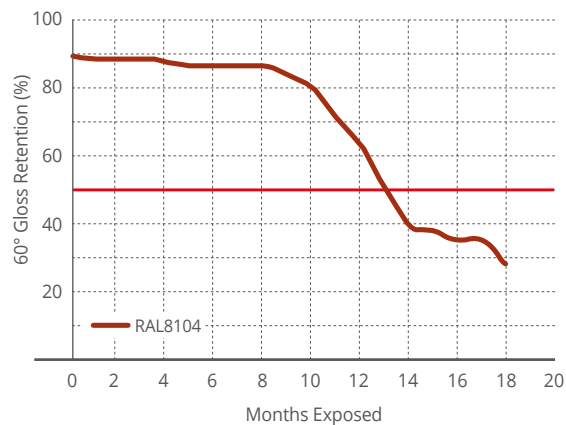
Weathering

Florida weathering performance of SETAPOLL SP103 formulated in Sepia Brown RAL 8014. Setapoll SP103 reaches the specification of 50% gloss retained after 12 months for Florida as stipulated by architectural accreditation bodies for durable, class 1 performance.

Moisture resistance

This is to assess the suitability of coated aluminium building components for storage under the influence of condensation and temperature in closed/wrapped conditions. A paint is made in a grey RAL 7016 colour, applied to a suitable surface and cured. Filter papers are wetted with 1.5 ml of water, placed in contact with the painted surface and tightly covered with a watch glass and a gasket seal. After storage at 58°C for 4 hours and using a spectrophotometer, the colour is measured on the exposed surface and the lightness/darkness value (L^*) is compared with that of the unexposed surface. The change in lightness/darkness (ΔL^*) gives an indication of the resistance to moisture.

Figure shows a test in progress and a typical result.



	SP103 in RAL 7016 paint
ΔL^*	1.4



SETAPOLL SP103

Available now for customers in the Europe, Middle East, Africa (EMEA), Americas and Asia Pacific regions, our SETAPOLL SP103 has been expertly designed to be a versatile, multi cure resin with a good balance of properties.

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