

PRODUCT CODE: C410026

AQUAGUARD(gelcoats are durable products based on a high quality Neopentyl Glycol (NPG) polyester resin.

AQUAGUARD FC WHITE GELCOAT has been designed specifically for the transport industry and exhibits outstanding overall properties including fast gel and cure and excellent weathering resistance.

FEATURES

- Excellent atomisation and general spraying characteristics
- Excellent flow/ levelling properties
- Rapid air release
- Highly resistant to pre-release
- Highly resistant to tripping /wrinkling
- Excellent interlaminar adhesion
- Excellent UV Resistance
- High gloss retention
- High degree of flexibility and general toughness

BENEFITS

- Ease in application
- Easy control of film thickness
- Minimises air entrapment
- Improved part quality
- Increased tolerance to application variability
- Incidences of delamination are minimised
- Parts remain whiter when subjected to UV
- Superior appearance of article during service life
- Improved resilience which reduces the occurrence of cracking

SUGGESTED USE

Designed for the manufacture of flat panels for use in transport applications.

RECOMMENDED CATALYST

We recommend using 2% MEKP NR20

APPLICATION GUIDELINES

Temperature	15-30°C
Catalyst Level (MEKP, 9% Active Oxygen)	1.5 – 2.5% v/w
Film Thickness (wet-apply 2 to 3 passes)	20 – 30 thou

It is not recommended to exceed a catalyst level of 3.0% (v/s)
Spraying in 2 or 3 passes minimizes porosity/air entrapment

This results in better part quality and performance.

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Appearance	White Opaque Liquid	
Viscosity	220 – 250 cP 5000 – 7000 cP	Cone and Plate @23°C Brookfield @25°C RVF spindle 4 @ 4rpm
Geltime	4 – 6 minutes	(2% v/w NR20 MEKP Catalyst)
Specific Gravity	1.1 – 1.3	
Flash Point	31°C	Setaflash
Shelf Life	4 months	

Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

TYPICAL CAST UNFILLED RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	>35	Barcol 934
Volume Shrinkage	8%	ISO 3521
Heat Deflection	>65°C	ISO 175 (1.8 MPa)

Cast resin was prepared as laid down in BS 3532 using 1% MEKP. Cured at room temperature for sixteen hours then post cured for two hours at 80°C followed by two hours at 100°C.

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum gelcoat handling properties, Aquaguard gelcoats should be stored in closed containers below 25°C, away from heat sources and sunlight. The gelcoat should be stored away from all sources of ignition. Stored gelcoat quantities should be kept to a reasonable minimum and used on a first in / first out stock rotation basis. Prolonged storage, or unfavourable storing conditions may cause separation, therefore agitation of the gelcoat before use is recommended. Best if used within 3 months from date of manufacture.

STANDARD PACKAGING

Hazacons
Mild Steel Drums
Mild Steel Pails

Always refer to the MSDS before use