

PRODUCT DESCRIPTION

PRODUCT CODE: C410127

Aquaguard™ Transport Gelcoats have been formulated primarily for composite transport panel applications and are particularly suitable for use in the fabrication of composite panels for refrigerated truck compartments. Aquaguard™ Transport gelcoats show excellent application characteristics, and the improved resiliency of the cured finish contributes to high durability and resistance to cracking in service. This white pigmented gelcoat has been designed for spray application, and ambient temperature curing with MEKP initiators such as Curox NR20 or Norox MEKP 9.

FEATURES

- Excellent atomisation and general spraying characteristics
- Excellent flow/ levelling properties
- Good sag resistance
- Highly resistant to tripping /wrinkling
- Rapid air release
- Highly resistant to pre-release
- High degree of flexibility and general toughness

BENEFITS

- Easy to apply with industry standard spray equipment
- Easy control of film thickness
- Provides a more consistent film thickness
- Increased tolerance to application variability
- Minimises air entrapment
- Improved part quality
- High resilience which reduces the incidences of cracking

RECOMMENDED CATALYST

2% Curox MEKP NR20, Curox M200 or 2% Norox MEKP 9

TYPICAL LIQUID RESIN PROPERTIES @ 23°C

PROPERTY	TYPICAL VALUE	TEST DETAILS
Appearance	White Liquid	
Viscosity	9000 - 11000cP (Summer) 1600 - 2000cP (Winter) 200 - 240cP	Brookfield RVT sp 5/10 rpm Brookfield RVT sp 5/10 rpm Cone and Plate
Geltime	10 - 15 minutes	1% v/w Curox NR20 or Curox M200
Shelf life	3 months	When stored in original closed container in the shade

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 (Fully cured)

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	40	Barcol (GYZ 934-1) EN59
Volume Shrinkage	7-8%	ISO 3521
Heat Deflection	80 - 85°C	ISO 175 (1.8 MPa)

APPLICATION GUIDELINES/RECOMMENDATIONS

Temperature	15-30°C
Catalyst Level (MEKP, 9% Active Oxygen)	1.5 – 2.5% v/w
Film Thickness (wet)	20 – 25 thou

Gelcoat should be thoroughly mixed for 10 minutes prior to shift start-up, using minimal agitation to avoid excess aeration.

Gelcoat film should be sprayed in 3 passes to give a total wet film thickness of 0.50mm (+/- 0.10mm).

Spray viscosity gelcoat coverage is approximately 600g/m² at 0.50mm wet film thickness and no wastage.

Gelcoat films applied at wet film thicknesses less than 0.40mm may be prone to tripping / wrinkling, poor coverage / opacity, and may not achieve optimum performance properties.

Gelcoat applied at excessive wet film thicknesses may be more prone to porosity, sagging, pre-release, UV-yellowing and stress cracking issues.

Unreinforced gelcoat should not be left to cure overnight, in order to avoid potential secondary bonding problems between the gelcoat and the back up laminate, and possible pre-release issues.

Gelcoat should never be thinned with traditional paint thinners, lacquers or acetone.

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, polyester resins & Gelcoats should be stored in closed containers, away from heat sources and sunlight. The resin should be stored away from all sources of ignition. Stored resin 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 resin before use is recommended.

STANDARD PACKAGING

Mild Steel drums
Mild steel pails

Always refer to the MSDS before use