

AQUAGUARD® SHIMMER GELCOATS are high performance cosmetic finishes for the production of FRP composite materials intended for service in demanding indoor and outdoor applications.

These Gelcoat finishes show excellent chemical and UV-weathering resistance properties, and feature reflective highlights to create a highly decorative finish. AQUAGUARD® SHIMMER is the ideal Gelcoat choice for Sanitaryware and FRP swimming pool composites.

FEATURES

- Good flow/levelling properties
- One step application spray system to obtain an attractive reflective finish.
- Rapid air release
- Highly resistant to pre-release
- Good sag resistance
- Highly resistant to tripping/wrinkling
- Excellent UV resistance
- Good gloss retention
- Excellent chemical resistance
- Excellent sprayability

BENEFITS

- Easy control of film thickness
- Productivity improvements and cost savings achievable, compared with other methods for producing this type of finish
- Minimal air entrapment
- Improved part quality
- Consistent film thickness
- Improved part quality. Increase tolerance to application variability
- Maintains original colour for longer following outdoor exposure
- Superior appearance of finished articles during service life
- Products maintain original cosmetic appearance for longer
- Can be sprayed using industry standard spray equipment, however modifications may be required

ADDITIONAL INFORMATION

Aquaguard Shimmer Gelcoats contain particulate materials suspended in the gelcoat.

In some products, these particulate materials include polyester chips.

TYPICAL LIQUID RESIN PROPERTIES @ 23°C

(Summer/Spray grade: No Chip Versions)

PROPERTY	TYPICAL VALUES	TEST DETAILS
Gel time	10 – 14 minutes	2% v/w MEKP NR20
Viscosity	16000 – 20000 cP	Brookfield RVF sp 4/4rpm
Styrene Content	35 – 40%	
Shelf Life	4 months	When stored in original closed container in the shade

TYPICAL LIQUID RESIN PROPERTIES @ 23°C

(Summer/Spray grade: Contains chip)

PROPERTY	TYPICAL VALUES	TEST DETAILS
Gel time	10 – 14 minutes	2% v/w MEKP NR20
Viscosity	5000 – 6000 cP	Brookfield RVF sp 5/20 rpm
Styrene Content	35 – 40%	
Shelf Life	4 months	When stored in original closed container in the shade

Aquaguard Shimmer Gelcoats are available in a number of colours. Please refer to your local allnex Composites representative.

SWIMMING POOL APPLICATION

During the development of AQUAGUARD® SHIMMER Gelcoat, the product was tested and qualified to meet the critical requirements of Australian Standard AS1838, indicating suitability for use as a surface finish in FRP swimming pool constructions, utilizing standard salt water chlorination systems. As part of this R&D program, well cured panels faced with AQUAGUARD® SHIMMER Gelcoat were also subjected to accelerated chlorine exposure tests. Based on the resulting performance data, these gelcoats are regarded as suitable for use in FRP swimming pool and spa constructions, fitted with standard chlorination filter systems, and operating at ambient temperatures. AQUAGUARD® SHIMMER Gelcoat is not recommended for use in elevated temperature pool or spa applications where the surface finish will be subjected to continuous, long term exposures to treated pool water above 32°C. Irrespective of operating water temperature, the chlorine level should be maintained in the ideal range of 1.5 – 2.5 ppm, and a maximum level of 5 ppm should not be exceeded. pH must also be maintained in the ideal range of 7.2 – 7.4. AQUAGUARD® SHIMMER has not been qualified for use in applications involving the use of alternative filtration and sanitiser systems such as ozone generators and the like.

Note: Over time, with increased exposure to climatic/chemical conditions, some lightening of colour and reduction in reflective properties of the cured Gelcoat – may occur.

Note: This product contains dispersed particulate material which necessitates the removal of filters from spray equipment prior to application. (see application notes below).

APPLICATION GUIDELINES

Aquaguard Shimmer Gelcoats contain particulate materials suspended in the gelcoat. These materials are required to achieve the final cosmetic appearance. All filters from the equipment should be removed before spray up. Refer to your equipment supplier for assistance with modification if difficulty is experienced.

Temperature	15 - 30°C
Catalyst Level (MEKP, 9% Active Oxygen)	1.5 – 2.5% v/w
Film Thickness (wet apply 3 to 4 passes)	20 – 32 thou (0.5 – 0.8mm)
Coverage to achieve above film thickness	625 -875gm ²

Gun Tip (Remove all filters) – 60 thou minimum tip size

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, gelcoat should be stored in closed containers, away from heat sources and sunlight. The product 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 gelcoat before use is recommended.

STANDARD PACKAGING

Mild steel drums (open top)
Mild steel pail

Refer MSDS before use