PRODUCT CODE: C411057

AQUAGUARD® XM range of Marbletech Gelcoats set new performance standards for the production of FRP composite materials intended for service in demanding indoor and outdoor Composite Swimming Pool applications. These Gelcoats provide a marble like finish, some with pearl highlights - to give a unique depth of appearance in the cured cosmetic finish. The specific Gelcoat colour is indicated in the product name. AQUAGUARD® XM gelcoats have been formulated for use with dedicated spray equipment specifically designed for non-atomised spray application of multicolour veined cosmetic Gelcoat finishes.

FEATURES

- Good flow/levelling properties
- One step application spray system to obtain an attractive reflective finish in a range of colours and visual textures.
- Rapid air release
- Highly resistant to pre-release
- Good sag resistance
- Highly resistant to triping/wrinkling
- Excellent UV resistance
- Good gloss retention
- Excellent chemical resistance
- Specially formulated for use with Polgran spray equipment

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
- Superior appearance of finished articles during service life
- Products maintain original cosmetic appearance for longer
- Non atomizing spray deposition to produce marble-like cosmetic effect

TYPICAL LIQUID RESIN PROPERTIES @ 23°C

PROPERTY	TYPICAL VALUES *	TEST DETAILS
Gel time	10 – 15 minutes	2% v/w MEKP NR20 **
Viscosity	24000 – 30000 cP	Brookfield RVF sp 4/4 rpm
Shelf Life	4 months	When stored in original closed container in the shade

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

*Typical values: Based on materials tested in our laboratories, but varies from sample to sample.

**Catalyst used for QC testing. Specified catalyst for Marbletech application is Curox M340.

AQUAGUARD® XM Gelcoats are available in a range of colours including: AQUAGUARD® XM BLACK, PEARL, BLUE and WHITE.

Please refer to your local Allnex Composites representative.

For Marbletech Gelcoat applications in Swimming Pool constructions, Curox M340 is the specified catalyst to be used.

ADDITIONAL INFORMATION

SWIMMING POOL APPLICATIONS

During the development of AQUAGUARD® XM Gelcoat, the product was tested to demonstrate capability 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® XM 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® XM 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® XM Gelcoat has not been qualified for use in applications involving the use of alternative 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.

APPLICATION GUIDELINES

Temperature	15 - 30°C
Catalyst Level (Curox M340)	2% v/w
Film Thickness (wet apply 3 to 4 passes)	25 – 35 thou

AQUAGUARD® XM Gelcoats are intended for spray deposition using specialised Polgran Applicator Guns. This equipment basically allows simultaneous (non-atomized) spray application of several Marbletech Gelcoat streams which combine to form unique veined marble cosmetic finishes in the cured Gelcoat film.

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