



Aquathanes™ FG

Free V.O.C. Food & Water Grade Water Base Polyurethane

FDA 21 CFR Part 175.300

SS375 : Part 1 : 2001

Green Label ID : 032-075

DESCRIPTION

Aquathanes™ FG a free VOC water-based polyurethane coating designed to provide a durable and an easy to clean surface suitable for contact with drinking water, food and pharmaceutical processing plants. It is applicable for both indoor and outdoor use.

SUITABLE USES

New or existing internal or exterior concrete, masonry or sound cement panel and board, primed ferrous or non ferrous metal.

- Food, pharmaceutical and water processing plant, treatment plant, power station, etc.
- Kitchen, hypermarket, restaurant, clean room, laboratory, chemical warehouse, etc.
- External façade of building, plants, etc.

ADVANTAGES

- Safe for contact with water and food
- Good chemical & solvent resistant
- Good abrasion & heat resistant
- Durable, hardens and dust proofs
- UV stable & excellent weather resistant
- Choice of colour and good gloss retention

SUBSTRATE REQUIREMENT

To obtain a desirable result, it is important that Aquathanes™ FG system is be applied on to a clean, sound, water tight and primed substrate that is free from loose coating, oil, grease, soot, dirt, adhesive, laitance and any other surface contamination or defect. It is suitable as a top coat over coating like Aquapoxy™ FGS or Aquapoxy™ FG.

SURFACE PREPARATION (FRESH CONCRETE)

- Prime substrate with Aquapoxy™ FGS
- Fill blow hole, crack, etc. with Aquapoxy™ Screed or other filler with bond strength >1.0 N/mm²
- Use Omniclean with jet washing to degrease oil, grease and hydrocarbon deposit.

WORKING WITH AQUATHANES™ FG

Please read and understand Technical Data Sheet and Safety Data Sheet of each product before using them. We recommend only trained and approved applicator be engaged to apply Aquathanes™ FG.

SUITABLE PRIMER

Apply a coat of Aquapoxy™ FGS, 2-component clear waterborne epoxy sealer at a minimal of 0.15 kg/m² coverage on concrete substrate. Usage may increase with more porous substrate.

APPLICATION OF AQUATHANES™ FG

Always equip with right tool and equipment before mixing polyurethane. Sample stirrer is shown below.

Start stirring and move MG peddler in direction opposite to MG peddler blade rotation for 2 minutes to obtain a uniform and homogenous mass.



Then add Part B slowly while the mixing continues. Keep mixing for another 2 minutes. You may dilute the mixture with no more than 2 litres of clean water.

For spray application we recommend to use Graco airless spray pump. Remove all filters before spraying. Check with your local supplier for more detail.



Type of application

On overhead or vertical surface
On Horizontal surface
As a top coat to Aquapoxy™ FG

Min. usage

>150µ D.F.T.
>200µ D.F.T.
>150µ D.F.T.





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PHYSICAL PROPERTIES

Appearance	Viscous liquid
Abrasion ASTM D4060 CS-10	Weight loss < 0.05g Per 1000 cycles/ 1000g
Bond strength ASTM D4541	> 2.0 N/mm ² after 07 days curing
Drinking water contact	SS375 : Part 1 : 2001
Touch dry Overcoating Full cure	90 min @ 30°C 16 hours @ 30°C 3 days @ 30°C
Epichlorohydrin	< 5ppm
Food hygiene	FDA 21 CFR 175.300
Gloss level	>95/60°
Hardness at 14 days ASTM D2240 Shore D	>80
Hot oil resistant 140°C	No peeling @ 6 hours
Pot life (A+B)	20 minutes @ 25°C
Product dilution	Max. 10% with water
Specific gravity	1.2 ± 0.1
Solid content W/W	> 50% (Part A + Part B)
Type of resin	Polyurethane Acryl- ester resins admixture
Viscosity Brookfield @ 25°C	1,000-3,000 cps
Weather Resistant ASTM G154-06	>1000hr

PACK SIZE

High Gloss 24.5 kg set - 21.0 kg (A) + 3.5 kg (B)
Semi gloss/ Matt 24.0 kg set - 21.3 kg (A) + 2.7 kg (B)

POTLIFE & SHELF LIFE

Pot life : 15- 20 minutes after mixing
Shelf life : 06 months in sealed condition
Do not use any mixture after 20 minutes.

STORAGE & TRANSPORTION

Keep Aquathanes™ FG in cool and dry condition.
Store in it original sealed condition.

LIMITATIONS

- Aquathanes™ FG may not bond properly to curing compound or other coatings on concrete. Bond or pull off test is recommended to determine suitability before actual application.
- Coverage and consumption vary depending on porosity and roughness of substrate.
- Suitable application temperature is 15°C to 45°C
- Apply or install when relative humidity is <75%

DISCLAIMER CLAUSE

This TDS summarizes our best knowledge of this product, including how to use the product based on the information available at the time of publication. You should read this TDS carefully, consider and try out the information in the context of how the product will be used, including in conjunction with any other product, type of surfaces to, and the manner the product will be applied.

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CLEANING TOOL & EQUIPMENT

Use water to clean before material cures.

COVERAGE

As a protective coating

150µ D.F.T requires about 300 g/m²
200µ D.F.T requires about 400 g/m²

