



Aquapoxy™ FG

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

FDA 21 CFR Part 175.300

SS 375 : Part 1: 2001

Green Label ID : 032-075

DESCRIPTION

Aquapoxy™ FG a free V.O.C. water-based epoxy coating/ lining designed for food, pharmaceutical and water treatment/processing industries. Aquapoxy™ FG unique nano resin-composite structure forms a clean, strong, tough and waterproof protection.

SUITABLE USES

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

- Food, pharmaceutical, water processing plant, treatment plant, power station, etc.
- Kitchen, supermarket, hospital, restaurant, clean and cold room, laboratory, warehouse, etc.

ADVANTAGES

- Safe for contact with water and food
- Good resistance against a range of chemicals
- Good abrasion resistant
- Durable, tough and dustproof surface
- Choice of high gloss or low sheen and anti skid.

SUBSTRATE REQUIREMENT

To obtain a desirable result, ensures Aquapoxy™ FG is be applied onto clean, sound and water tight substrate, free of loose coating, adhesive, dirt, grease, oil, soot, laitance and surface contamination and defect.

SURFACE PREPARATION (FRESH CONCRETE)

- Blast clean, scarify or grind the surface to remove laitance and expose blow hole
- Fill blow hole, crack, etc. with Aquapoxy™ Screed or filler with bond strength > 1 N/mm².
- Use Omniclean with jet washing to degrease oil, grease and hydrocarbon deposit.
- Moisture within the concrete should not be more than 20% on Protimeter scale.

WORKING WITH AQUAPOXY™ 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 install Aquapoxy™ FG.

SUITABLE PRIMER

On concrete, mineral, cement board, stone, timber, etc. use Aquapoxy™ FGS at $\geq 0.15\text{kg/m}^2$. For ferrous and non ferrous metals, use Aquapoxy™ AC1000 Primer at $\geq 0.12\text{kg/m}^2$. Usage may increase with more porous substrate.

APPLICATION OF AQUAPOXY™ FG SYSTEM

Equip with right tool and equipment before mixing any epoxy. Sample of a stirrer is shown below.



Set mixer at 200-300 rpm. Blend Part A (20kg) and move MG peddler opposite to blade rotation for 3 minutes until a homogenous mass obtained.

Add Part B (4kg) while and mix for another 2 minutes. No dilution is required. For spray application, we recommend Graco air-less spray pump. Ensures that all pump and gun filters are removed before spraying. Please check with your local supplier for more detail.



Sample coverage

Type of application	Min. usage
On overhead or vertical surface	: $\geq 200\mu$ D.F.T.
On Horizontal surface	: $\geq 350\mu$ D.F.T.
Over fibre mesh (as a lining)	: $\geq 1,000\mu$ D.F.T.

COLOUR

Standard Colour Chart





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PHYSICAL PROPERTIES

Appearance	Viscous liquid
Abrasion ASTM D4060	Weight loss < 0.1g/ 1000 cycles/1000g /CS-10
Adhesion at 14 days ASTM D3389-D 3002	Class 0 Cross cut tester n°157
Bond strength ASTM D4541	≥2.0 N/mm ² @ 7 days cured
Drinking water contact	SS375 : Part 1 : 2001
Touch dry Over coat interval Full cure	04 hours @ 30°C 12 hours @ 30°C 07 days @ 30°C
Food hygiene	FDA 21 CFR 175.300
Gloss level	>95/60°
Hardness at 14 days	>3H at 130μ D.F.T.
Hot oil resistant	No peeling at 140°C 6 hours
Permeability -1 mm	24hrs @ 0.5kg/m ² pressure
Pot life (A+B)	30 minutes @ 25°C
Product dilution	No required
Salt spray ASTM B117	Passed 1500 hours
Specific gravity	1.2 ± 0.1 depends on colour
Solid content W/W	> 60% (Part A + Part B)
Type of resin	Nano-Composite Epoxy Resin
Viscosity @ 25°C	2,000– 4,000 CPS brook-field

CLEANING TOOL & EQUIPMENT

Use water to clean before material start to harden

COVERAGE

As a protective floor coating

350μ D.F.T. requires about 585g /m²

As a Lining with fibre reinforcement

1000μ D.F.T. requires about 1670g /m²

PACK SIZE

24 kg set - 16kg (Part A) + 8kg (Part B)

POTLIFE & SHELF LIFE

Pot life : 25 to 30 minutes after mixing

Shelf life : 9 months in sealed condition

Do not use any mixture after 30 minutes.

STORAGE & TRANSPORTION

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

LIMITATIONS

- Aquapoxy™ 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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