TECHNICAL DATA SHEET

SeaShield™ FX-763 Epoxy

Trowel Grade Thixotropic Epoxy Adhesive

Description

SeaShield FX-763 Trowel-Grade Epoxy is a two-component, 100% solids, moisture tolerant, non-sag epoxy designed to provide adhesion and bonding of dissimilar substrates.

Uses

- Top bevel for pile jacketing systems when combined with aggregate
- Securing ports and paste-over for pressure injection applications
- For vertical and overhead concrete patch repair
- Bonding dissimilar substrates
- To adhere FRP spacers and other materials to steel

Features

- Bonds well to most construction materials
- Bonds to dry and damp surfaces
- Suitable for saltwater marine applications
- Easily applied with trowel or putty knife
- Can be feather edged
- Excellent abrasion resistance
- High peel and shear strength

Surface Prep

Surface preparation is very important and will improve the adhesion and extend the life of the coating. Surface preparation should include the following:

1. Surface must be at least 40°F (4°C) prior to application.

2. Surface must be sound and free of loose rust, marine growth, and any old existing coatings.

3. Remove all oils, greases, dirt and wax solutions from surface.

4. High-pressure waterblast, sandblast or shot-blast the surface to remove contaminants which will interfere with proper adhesion. Waterblast shall be done at a minimum of 3,500 psi (24 MPa).

A. **Concrete**: Prepare surface by high water-blasting or other mechanical means to achieve ICRI Guideline 310.2R CSP 6-9. New concrete should hydrate a minimum of 5 days prior to coating.

B. **Steel**: Prepare surface by high water-blasting or other mechanical means to achieve SSPC-SP-12/NACE 5 WJ-4.

C. **Wood**: Prepare surface by high water-blasting or other mechanical means necessary to achieve a sound surface, free of all contaminants.

Mixing

For Coating Applications: For best mixing & application, components shall be at a min. 70°F (21°C) prior to use. Initially stir Part A (base) & Part B (hardener). Do not add thinner. Add the hardener to the base and mix at a slow speed until a constant color is achieved, making sure all sides of the container are scraped.

For Top Bevel: Mix resin as stated above, then add up to 1 part SeaShield Aggregate Part C by volume, slowly to avoid clumping, while continuing to mix for approximately 2-3 minutes or until a uniform consistency is achieved, scraping pails as needed.

Application

SeaShield FX-763 Epoxy can be applied to the prepared surfaces with a putty knife. For top bevel application, use a steel trowel and immediately construct the top bevel using the mixed SeaShield FX-763 with aggregate to construct a slope that will shed water.

Storage

Store in a dry, well-ventilated area between 40°F and 95°F (4°C and 35°C) in original, unopened containers. Shelf life is at least 24 months under these conditions. It is recommended that all components be stored between 68°F and 86°C (20°C and 30°C) for 24 hours prior to use for optimum pumping and productivity.

Cleaning

Clean tools, spills and drips from surfaces with Simple Green, MEK, acetone etc. Cured material can only be removed by mechanical means.

HSE

Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See the safety data sheet (SDS) for further information.

Packaging

Kit Size	Part A	Part B
1 Liter kit	0.5 liter	0.5 liter
2 Gal kit	1 Gal	1 Gal
10 Gal kit	5 Gal	5 Gal

TECHNICAL DATA SHEET

Tech Data

Properties	Imperial	*Metric*
Solids Content	100%	*100%*
Base Component – (Unmixed) @ 77°F (25°C)		
Viscosity	1,000,000 cps	*1,000,000 cps*
Color	Opaque/Clear	*Opaque/Clear*
Hardener – (Unmixed) @ 77°F (25°C)		
Viscosity	750,000 cps	*750,000 cps*
Color	Beige	*Beige*
Mixed Material @ 77°F (25°C)		
Viscosity	850,000 cps	*850,000 cps*
Color	Beige	*Beige*
Mixing Ratio (A/B) by Volume	1 parts Base:1 part Hardener	*1 parts Base:1 part Hardener*
Consistency (ASTM C881)	Non-sag	*Non-sag*
Gel Time @ 77°F (25°C)	45 to 55 minutes	*45 to 55 minutes*
Cure Time @ 77°F (25°C)	6 to 8 hours	6 to 8 hours
Abrasion Resistance (1000 cycles, H-22 wheel, 1 kg load)	170 mg loss	*170 mg loss*
Compressive Strength (ASTM D695), neat - 7 days	5,000 psi	*34.5 MPa*
Product Yield - When mixed 1 part by volume with SeaShield Aggregate Part C	231 cubic in./US gal neat	*0.001 cubic dm/L neat*
	350 cubic in./US gal	*0.0015 cubic dm/L*
Pull-Off Adhesion (RT)	2587 psi	*17.8 MPa*
Application Temperature	40°F to 125°F	*5°C to 52°C*
Service Temperature - intermittent	-40°F to 250°F	*-40°C to 121°C*
Service Temperature - continuous	-40°F to 200°F	*-40°C to 93°C*

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