

FIX'N'FAST BOND® - FFP501 UNDERWATER REPAIR PUTTY

PRODUCT DATA SHEET



FIX 'N' FAST BOND® Metal Repair Putties are high performance metal-filled two-component epoxies that allows fast, economical and permanent repairs. It acts as a space filling adhesive that repairs holes, cracks and defects. They are also used as a rebuilding product that facilitate reinforcement to fiberglass wrapping on pipe reinforcement applications.

There are 10 types of putties developed for different materials applications or requirement. Fix 'n' Fast Bond Metal Repair Putties cures quickly, resist corrosion and are exceptionally resistant to chemicals.

FEATURES

- Two-component ambient temperature cured epoxy putty
- Designed for patching, repair and rebuilding for wet and moist applications
- Penetrates wetness to bond securely to many metallic and non-metallic surfaces
- Eliminates the need for substrate to be dry before repair
- Cures temperature as low as 5°C-10°C
- Can be drilled, tapped, machined or painted



FFP501 Bronze Repair Putty

KEY TECHNICAL DATA / PACKAGING INFORMATION

PRODUCT CODE	COMPRESSIVE STRENGTH (psi)	ADHESIVE TENSILE SHEAR (psi)	FLEXURAL STRENGTH (psi)	CURED HARDNESS (Shore D)	TEMP (°C)	MIXTURE (A : B)		MIN. CURING (HOUR)			IMPA
						By Wt.	By Vol.	Pot Life (mins)	50% Strength	100% Strength	
Underwater Repair Putty FFP501	11,450	2,000	5,600	80	-50 to 120	4.5:1	2.1:1	40	6	12	812195

TECHNICAL PROPERTIES

Typical Properties of Uncured Materials	Component A (Resin)	Component B (Hardener)
Appearance	Black paste	Light yellow paste
Basic Material	Modified Epoxy Resin	Epoxy modified amine
Specific Gravity (g/cm ³) (GB/T13477.2-2002)	2.9	1.33

Typical Properties of Mixed Materials	
Appearance	Steel colour paste
Weight ratio (A : B)	4.5:1
Volume ratio (A : B)	2.0:1
Pot life (min) (100g@25°C)	40
Min. curing time at room temperature	50%loading: 6 hours 100%loading: 12 hours

Typical Properties of Cured Materials	
Specific Gravity (g/cm ³) (GB/T13477.2-2002)	2.1 g/cm ³
Hardness (GB/T2411-1980)	82 Shore D
Adhesive Tensile Shear	2,685 psi (189 kg/cm ²)
Compressive Strength	5,625 psi (395 kg/cm ²)
Flexural Strength	4,990 psi (351 kg/cm ²)
Working Temperature	-50°C - 160°C



APPLICATION

- Clean or sand off existing area
- Mix two components – Part A & Part B together
- 5-50mins applications time (check the table below for pot life)
- Apply as required
- Optional: Apply with Corsmart Chopped Strand Mat or QuikControl Carbon Fiber Repair Tape for strengthening and reinforcement on the repair work

PACKAGE INFORMATION

Product Code: FFP501, 454 grams/ set

Component A (Resin): 355.3 grams/ container

Component B (Hardener): 98.7 grams/ container

SAFETY INFORMATION

- Keep out of reach of children.
- It is recommended to use at well ventilated place.
- In case of contact with skin, wipe away, and rinse immediately with water. If contact with eyes, rinse immediately with water and visit a physician.
- Please refer to the Safety Data Sheet (SDS) for more details

STORAGE

- Stored in a cool and dry location in unopened containers at 8 to 28°C.
- The product shelf life is 24 months.

DIRECTION FOR USE

- Prepare the repairing surface by grinding, filing or sand blasting. Remove oil and chemical (if any) from the surface.
- Mix component A (resin) and component B (hardener) in accordance to the specified ratio and stir to ensure uniform mixture.
- Dispense the repair putty onto the repairing surface with scrapper, compress and compact to eliminate gaps and air bubbles.
- Allow curing in accordance to the minimum curing time at room temperature before operation. If faster curing is required, heat up the surface slightly to shorten curing time.

Note:

Higher temperature and mixing more of each components together will shorter the pot life. On the contrary, lower temperature and mixing less of each component will length the pot life. In the case of temperature below 10°C, it is recommended to preheat the repairing surface. In the case high temperature, reduce the mixture of each component to shorten curing time.

DISCLAIMER

All Information presented here is based on laboratory tests. As we cannot control the conditions of specific processing applications, we recommend testing the product in your laboratory before usage. No warranty, either expressed or implied is intended.