

**FIX'N'FAST BOND® - FFP111 LIQUID 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**

- Steel filled two component Epoxy liquid
- Proprietary formulation used as a wet out for Carbon fiber or E-Glass
- Capable of withstanding high pressure and high temperature environments
- Also used for filling and levelling equipment
- Repairing hard to reach areas where a flowable epoxy is required
- Duplicating or tracing masters



FFP111 Liquid 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	
Liquid Repair Putty FFP111	9,100	2,100	17,900	80	-50 to 120	3.6:1	1.4:1	20	8	24	-

**TECHNICAL PROPERTIES**

Typical Properties of Uncured Materials	Component A (Resin)	Component B (Hardener)
Appearance	Black Paste	Light orange liquid
Basic Material	Modified Epoxy Resin	Epoxy modified amine
Density (g/cm <sup>3</sup> )	2.9	0.93

Typical Properties of Mixed Materials	
Appearance	Steel grey paste
Weight ratio (A : B)	3.6:1
Volume ratio (A : B)	1.1:1
Pot life (min) (100g@25°C)	30
Min. curing time at room temperature	50%loading: 8 hours 100%loading: 24 hours

Typical Properties of Cured Materials	
Specific Gravity (g/cm <sup>3</sup> ) (GB/T13477.2-2002)	2.1
Hardness (GB/T2411-1980)	85 Shore D
Apparent Tensile Shear	2,800 psi (197 kg/cm <sup>2</sup> )
Compressive Strength	10,095 psi (710 kg/cm <sup>2</sup> )
Flexural Strength	5,600 psi (394 kg/cm <sup>2</sup> )
Working Temperature	-50°C - 120°C



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## APPLICATION

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- 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

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## PACKAGE INFORMATION

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**Product Code: FFP111, 454 grams/ set**

Component A (Resin): 355.3 grams/ container

Component B (Hardener): 98.7 grams/ container

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## SAFETY INFORMATION

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- 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

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## STORAGE

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

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## DIRECTION FOR USE

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- 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.