



Fastfix-it Enterprise Co., Ltd.

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TECHNICAL DATA

Product Name: Wear resistant epoxy putty
Product Code: FX-WRE110
Product Description: It is a ceramic-filled and low-friction finish epoxy putty and it cures at room temperature and is designed for maintenance, repair and tooling applications, and also can be drilled, tapped, machined or painted.

Features:

1. Fix to aluminum, steel and many other metals, as well as concrete.
2. Easily applies to upright surfaces.
3. Machine casting to metallic finish.
4. 100% solids
5. Non-rusting repairs.
6. Resistant to chemicals and most acids, bases, solvents and alkalis.
7. High performance of wear resistance
8. Rebuilds and protects interfacing metal surfaces.
9. Protects metal from bi-metallic corrosion.

Product Data:

The color of Part A (Resin): Dark gray
 The color of Part B (Hardener): Beige
 The mixed color: Gray, nearly aluminum color
 Ratio: 7:1 (by volume), 93:7 (by weight)

Storage condition & Shelf-Life:

24 months from date of production if stored properly in original unopened, sealed and undamaged packaging in cool and dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight.

Technical Data:

TYPICAL PHYSICAL PROPERTISE	RESULTS	TEST METHOD
Uncured		
% Solids by Volume	100	-
Mixed Viscosity	Paste	-
Specific Gravity	Resin: 1.52 Hardener: 0.96	-
	Mixed: 1.48	
Working time	25~30 mins (500g, @25°C)	-
Full cure time	24 hours	-
Maximum Operating Temperature	Wet: 49°C, Dry: 150°C	-
Cure 7 days @25°C		
Shear Strength	863 psi	Ref. ASTM D 1002-10
Tensile Strength	5670 psi	ASTM D638-14 (Type I, V= 5 mm/min.)
Glass Transition Temperature	87.36 (T _g) °C	DSC
Flexural Strength	8984 psi	ASTM D790-17 Procedure AI
Compersive Strength	16732 psi	ASTM D695-15
Hardeness	89 Type D/1 sec	Ref. ASTM D2240-15 ^{el}
Temperature Lmitations	Continuous: -30 to 150 °C Intermittent: -30 to 200 °C	-

*** For information only - not for specification purposes.***

Application Instructions:**1.Surface Preparation**

FX-WRE110 Wear resistant epoxy putty only be applied to clean, dry and well roughened surfaces.

- (1) Remove all loose material and surface contamination and clean with a suitable solvent which leaves no residue on the surface after evaporation such as acetone, MEK, isopropyl alcohol, etc.
- (2) If necessary, apply moderate heat to remove ingrained oil and clean again with solvent.
- (3) Roughen surface by abrasive blasting, grinding, rotary file or other appropriate means.

2.Mixing & Application

Using an appropriate tool, apply the mixed epoxy putty to the prepared surface, pressing firmly to insure intimate contact and eliminate any air pockets at the bond line or within the material.

Some applications such as holed pipes or tanks and cracked casings may require the use of reinforcement tape to bridge the damaged area(s) followed by the application of additional material to completely cover the reinforcement tape.

3.Cleaning Equipment

Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

*** Not recommended for long term exposure to concentrated acids or to organic solvents ***

**Health and Safety
Information:**

For information and advice on the safe handling, storage and disposal, users shall refer to MSDS containing physical, ecological, toxicological and other safety-related data.