Product Specification



PES 104 POWER METAL REPAIR **FLUID XF**

PES 104 Power Metal Repair Fluid XF is a twocomponent fast curing solvent free epoxy metal repair fluid. The product has been designed for use on a wide range of surfaces and is tolerant of less than ideal surface preparation and surfaces contaminated with grease, oil and lubricants.

Typical applications

Suitable for emergency repairs to worn surfaces, as an anti-slip system for metallic substrates and for resurfacing and sealing leaking transformers.

The material can also be used as a gap filling adhesive.

Characteristics Appearance

Base: Black viscous fluid Activator: White viscous fluid Mixed: Mid grey viscous fluid

Mixing Ratio

By	weight:	1	
By	volume:	1	-

Density

.80
.80
.80

Volume Capacity 33.8 in³

Solids content 100%

Sag Resistance Nil at 0.118"

Coverage

0.44lb (200 gm) of fully mixed product will give the following coverage rates -1.2ft² at 40mil

1.76lb (800gm) of fully mixed product will give the following coverage rates -4.75ft² at 40mil Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being repaired.

Cure Times

The applied material should be allowed to harden for the times indicated below before subjected to the being conditions indicated:

Usable life

50°F	10 minutes
68°F	5 minutes
86°F	2.5 minutes
104°F	75 seconds

Hard dry

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50°F	2 hours
68°F	60 mins
86°F	30 mins
104°F	15 mins

Full Cure

50°F	8 hours
68°F	4 hours
86°F	2 hours
104°F	1 hour

Storage life

5 years if unopened and stored in normal dry conditions (59-86°F).

Mechanical **Properties** Adhesion

Tensile Shear to ASTM D1002 on abrasive blasted mild steel with 75-micron profile

2630psi (185kg/ cm²)

Pull off Adhesion to ASTM D4541 on abrasive blasted mild steel with 75-micron profile 2205psi (155kg/ cm²)

Compressive strength

Tested to ASTM D695 8750psi (615kg/cm²)

Corrosion Resistance

Tested to ASTM B117 Minimum 5000 hours

Flexural Strength

Tested to ASTM D790 9315psi (655kg/cm²)

Hardness

Rockwell R to ASTM D785 85

Heat Distortion

Tested to ASTM D648 at 264psi fiber stress. 68°F Cure 140°F 212°F Cure 208.4°F

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Heat Resistance

Suitable for use in immersed conditions at temperatures up to 140°F. Resistant to dry heat up to 266°F dependent on load.

Food Contact

compliant USDA for incidental food contact.

Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalies, salts and organic media. For more detailed information refer to the PES Technical

Center for advice.

Quality

All PES Products are supplied under the scope of the company's fully documented quality system.

Warranty

PES warrants that the performance of the product supplied will conform to the typical descriptions quoted this specification within provided material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

Health and safety

Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves and other recommended personal protective equipment must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read and fully understood the detailed Material Safety Data Sheet.

Legal Notice: The data contained within this Product Specification is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. PES accepts no liability arising out of the use of this information or the product described herein.