



## PES 104 Power Metal Repair Fluid XF

**104 Metal Repair Fluid XF** is a two component fast curing solvent free epoxy repair fluid. The product has been designed for use on a wide range of metallic surfaces and is tolerant of less than ideal surface preparation and surfaces contaminated with low viscosity oil/ lubricants. The material can be used to make emergency repairs to worn surfaces, as an anti-slip system for metallic surfaces and for resurfacing and sealing leaking transformers.

### **Main characteristics -**

Two component  
Solvent free epoxy  
1:1 mixing ratio by volume  
Usable life 5 minutes @ 68°F (20°C)  
Touch dry 25 minutes @ 68°F (20°C)  
Full Cure 45 minutes @ 68°F (20°C)  
80 Rockwell R Hardness (Once fully cured)  
Applied by brush or applicator tool  
Available in 28ml syringe, 800gm pack sizes

### **Mechanical Properties –**

#### **Adhesion**

Tensile Shear to ASTM D1002    2630psi    (185kg/cm<sup>2</sup>)

#### **Compressive strength**

Tested to ASTM D 695    2630psi    (185kg/ cm<sup>2</sup>)

#### **Lap Shear**

Tested to ISO 4587    3400psi    (240kg/ cm<sup>2</sup>)

#### **Peel Strength**

Tested to ISO 4578    725psi    (5N/mm<sup>2</sup>)

#### **Heat Resistance**

Suitable for water immersion up to 140°F (60°C) and intermittent contact with steam up to 212°F (100°). Dry heat resistance up to 230°F (110°C).



Oil refinery steel steps degreased and coated with PES 104 Power Metal Repair Fluid XF and Aluminium Oxide aggregate. No sparks were allowed in the repair area, the material bonded to the surface even with oil contamination on the surface.

Weeping/ Leaking transformer surfaces degreased and sealed using PES 104 Power Metal Repair Fluid XF.

