

# Product Specification



## PES 107 Power Metal Repair Paste XL

### PES Power Metal Paste XL

is a two component solvent free epoxy metal repair compound. The product has an extended working life and has been designed for use in hot climates or in situations where the complexity of an application requires a longer working time. The material can be applied to a wide range of metallic surfaces and once cured is readily machinable.

### Typical applications

Suitable for emergency repairs or part of planned maintenance to equipment such as worn or damaged pump shafts, cracked pump or valve casings, scored hydraulic rams, worn bearing housings, damaged flanges, leaking tank seams, worn keyways and cracked engine blocks. The long working life of the material also makes it ideal for complex shimming operations.

### Characteristics

#### Appearance

Base:	Dark	Grey
Paste		
Activator:	Light	grey
paste		

Mixed: Mid grey paste light loading 12 hours

Full loading 4 days

Immersion/chemical contact 7 days

#### Mixing Ratio

By weight: 1.67:1  
By volume: 3:2

#### Density

Base: 2.70  
Activator: 2.4  
Mixed: 2.58

#### Volume Capacity

23.6 cu in

#### Solids content

100%

#### Slump Resistance

0.78 in

#### Useable Life

68°F 60 minutes  
86°F 30 minutes

#### Coverage

1Kg will cover 1.3 sq ft at a nominal thickness 1/8".

#### Cure Times

Once hardened, the material should be left for the following periods of time at 68°F before being subjected to the conditions indicated.

Movement without load or immersion 5 hours

Machining and

#### 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

(2550 psi) 180kg/cm<sup>2</sup>

#### Compressive strength

Tested to ASTM D 695

(11,900psi) 839kg/cm<sup>2</sup>

#### Flexural Strength

Tested to ASTM D790 (8300psi) 585kg/cm<sup>2</sup>

#### Hardness

Shore D to ASTM D2240

87

#### Heat Resistance

Suitable for long term water immersion at temperatures up to 140°F.

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Resistant to dry heat up to 356°F dependent on load.

## Chemical Resistance

The product resists attack by a wide variety of inorganic acids, alkalis, salts and organic media.

## 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 within this specification 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.