# PRODUCT SPECIFICATION SHEET:

# **REPCO 1103 ER STICK**



### **PRODUCT DESCRIPTION**

**Repco 1103 ER Stick** is a two component repair material in stick form, which cures rapidly at room temperature after mixing. It is a metal repair adhesive that develops high mechanical strength in a short period of time.

# **TYPICAL APPLICATIONS**

Suitable for emergency repairs to cracked pump or valves, bearing housings, flanges, leaking pipes, leaking tank seams, cracked engine blocks.

# **GENERAL PRODUCT INFORMATION**

**Appearance** 

Base: Dark Grey Putty
Activator: Black putty
Mixed: Mid grey putty

### **Mixing Ratio**

Supplied in stick form

### **Volume Capacity**

55.5cc/125gm stick

### Solids content

100%

### **Slump Resistance**

Nil at 2.5 cm

### **Cure Times**

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

## **Usable life**

10°C 10 minutes 20°C 5 minutes 30°C 2.5 minutes

### **Machine Time**

10°C 1 Hour 20°C 30 minutes 30°C 15 minutes

# **Full Cure**

10°C 2 hours 20°C 1 hour 30°C 30 minutes

### Storage life

The shelf life of the product is typically 5 years if unopened and stored in cool dry conditions (15-30°C/ 60-86F°). Once opened replace the lid firmly and store as above.

# **MECHANICAL PROPERTIES**

#### Adhesion

**Tensile Shear** when tested in accordance with ASTM D1002 on abrasive blasted mild steel with a 75 micron profile will typically be:

185kg/cm<sup>2</sup> 2,630 psi

**Pull Off dolly adhesion** tested in accordance with ASTM D 4541 on mechanically prepared mild steel to ST2

125kg/cm<sup>2</sup> 1,780 psi 21.7 MPa

### Compressive strength

When tested in accordance with ASTM D 695:

843kg/ cm<sup>2</sup> 12,00psi 105.5 MPa

### **Flexural Strength**

When tested in accordance with ASTM D790

455kg/cm<sup>2</sup> 6,470psi

### **Hardness**

# Rockwell R

Tested to ASTM D785 typical value will be: 92

# **Heat Resistance**

Suitable for long term water immersion at temperatures up to  $50^{\circ}$ 

Resistant to dry heat in excess of 150°C dependent on load.

# **Approvals**

### **Food Contact**

USDA compliant for incidental food contact.

Approved by BUREAU VERITAS for Surface Protection and Cold Repair Products applied to Marine Vessels.

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# **CHEMICAL RESISTANCE**

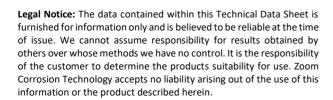
Once fully cured the product resists attack by a wide variety of inorganic acids, alkalies, salts (salt water) and organic media. The product is also resistant to mineral oils, lubricating oil and a wide range of hydrocarbons. For further information please refer to the chemical resistant chart or a technical representative.

# **TECHNICAL SUPPORT**

Zoom Corrosion Technology offer complete technical support and assistance, from discussing application requirements to training approved local contractors. For further information please contact a REPCO representative or your nearest REPCO authorised dealer.

# **HEALTH AND SAFETY**

Please refer to the product safety data sheet for detailed information on handling, storage, shipping and disposal.





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