

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/ 60-86°F). 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/cm² 2,630 psi

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

125kg/cm² 1,780 psi 21.7 MPa

Compressive strength

When tested in accordance with ASTM D 695:

843kg/ cm² 12,00psi 105.5 MPa

Flexural Strength

When tested in accordance with ASTM D790

455kg/cm² 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°

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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