

PRODUCT SPECIFICATION SHEET: REPFLO 2043 CERAMIC UHW FLEX

PRODUCT DESCRIPTION

Repflo 2043 Ceramic UHW Flex is a two component solvent free epoxy repair compound which containing ceramic beads for extreme Impact and sliding abrasion from aggregates and wet slurries.

TYPICAL APPLICATIONS

Suitable for slurry pumps, bins and hoppers, chutes, fan blades and housings, internal pipe surfaces, pipe elbows, wear plates, screw conveyors and pulverisers.

GENERAL PRODUCT INFORMATION

Appearance

Base: Mid Grey Paste
Activator: Black Paste
Mixed: Mid Grey Paste

Mixing Ratio

By weight 2.64:1
By Volume 5:2

Density

Base 2.41
Activator 2.29
Mixed 2.38

Volume Capacity

420cc/kg

Solids content

100%

Slump Resistance

Nil at 20 mm

Coverage

5kg (11lb) of fully mixed product will give the following coverage rates –

0.35m² at 6mm 3.76ft² at ¼”
0.21m² at 10mm 2.26ft² at 0.4”

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 being subjected to the times indicated.

Usable life

10°C 100 minutes
20°C 50 minutes
30°C 25 minutes
40°C 12.5 minutes

Minimum Overcoating

10°C 8 Hours
20°C 6 Hours
30°C 3 Hours
40°C 1.5 Hour

Maximum Overcoating

10°C 24 Hours
20°C 12 Hours
30°C 6 Hours
40°C 3 Hours

Full Cure

10°C 8 Days
20°C 4 Days
30°C 2 Days
40°C 24 Hours

HEAT RESISTANCE

Full Immersion

Tested water/hydrocarbon Immersion at 60°C

Pass (No Blistering)

Dry Heat Resistance

Tested to ASTM D2485 at 60°C

Pass 120°C

Storage life

5 years if unopened and stored in normal dry conditions (15-30°C)

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MECHANICAL PROPERTIES

Abrasion Resistance

Taber H10 Wheels/1 Kg load
29mg³ loss/1000 cycles

Adhesion

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

236kg/cm² 3,330 psi

Pull Off dolly adhesion tested in accordance with ASTM D 4541 on abrasive blasted steel with 75 micron profile

258kg/cm² 3,645 psi

Compressive strength

When tested in accordance with ASTM D 695:

790kg/ cm² 11,150psi

Corrosion Resistance

When tested in accordance with ASTM B117 the material shows no sign of corrosion after:

Minimum 1000 hours Exposure

Flexural Strength

When tested in accordance with ASTM D790

415kg/cm² 5,860psi

Impact Resistance

Tested to ASTM D256

66J/m

CHEMICAL RESISTANCE

Once fully cured the product resists attack by a wide variety of inorganic acids, alkalies, salts (salt water) and organic media. 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.

Legal Notice: The data contained within this Technical Data Sheet 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. Zoom Corrosion Technology accepts no liability arising out of the use of this information or the product described herein.

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