REPCO SOLUTIONS

TECHNICAL DATA SHEET:
REPFLO 2043 CERAMIC UHW FLEX

PRODUCT DESCRIPTION

REPFLO 2041 MW is a two component solvent free repair compound based on an energy absorbing epoxy resin blend and ceramic beads for extreme impact and sliding abrasion environments from aggregates and wet slurries.

TYPICAL APPLICATIONS

Suitable for repairing and protecting surfaces suffering from severe erosion and fine particle wear such as:

- Slurry Pumps
- De watering pumps
- Bins and Hoppers
- Chutes
- Screw conveyors
- Pipe elbows
- Fan blades and housings
- Wear plates
- Pulverisers
- Ceramic tile lined chutes

SURFACE PREPARATION

STEEL SUBSTRATE

Steel substrates should be abrasive blasted to ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2) and a minimum blast profile of 75 microns using an angular abrasive. Remove all residual blast debris and the surfaces inspected. Profile checks should be taken and recorded. Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material. All surfaces must be repaired before rusting or oxidation occurs.

PLEASE NOTE: Salt contaminated surfaces must be pressure washed with fresh clean water and checked using a suitable chloride measurement gauge. This process must be repeated until all ingrained contaminants have been sweated out of the surface.

MIXING AND APPLICATION

PRECAUTIONS

Warm the Base component to 15-25°C (60-77F°) before mixing and do not apply when the ambient or substrate temperature is below 10°C (40F°) or less than 3°C (37°F) above the dew point

MIXING

Mixing can be either partial or full units. If mixing the full unit, then ensure as much as possible of both the base and activator is dispensed from the containers onto a clean plastic mixing surface. Mix using the spatula provided until a uniform material free from any streakiness due to unmixed product, while also ensuring there is no unmixed material left on the spatula or the mixing surface.

For part mixing the mix ratio is 5:2 by volume. Using the spatula take 5 equal measures from the base unit onto a clean plastic mixing surface. Clean the spatula thoroughly and take 2 equal measure from the activator unit and place next to the base unit and mix as above.

From the commencement of mixing the material should be used within 50 minutes at 20°C (68F°).

APPLICATION

Using the spatula provided or the applicator tool, apply the mixed material to the blasted profile. Ensure the product is firmly pressed in to the surface to fully wet out the profile to a smooth finish. The material can be applied in a single application at the recommended wet film thickness of 6-10mm.

COVERGAE RATES

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 coated.

CURE TIMES

At 20°C (68F°) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Usable life	50 minutes
Minimum overcoating time	6 hours
Maximum overcoating time	12 hours
Full Cure	4 days

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FOR OPTIMUM PERFORMANCE

After an initial curing period of at least 4 hours at 20°C (68F°), raising the cure temperature progressively to 60 - 100°C (140-212F°) for up to 8 hours will result in improved mechanical, thermal and chemical resistance properties

OVERCOATING TIMES

Minimum - the applied material can be over-coated as soon as it is touch dry.
Maximum - the over-coating time should not exceed 12 hours at 20°C (68F°).

Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

UNIT SIZES

Product is available in the following pack sizes –

5KG (3.3lb)

COLOURS

Mixed Material	Mid Grey
Base Component	Mid Grey
Activator Component	Black

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.

TECHNICAL DATA

Please see the REPFLO 2043 Ceramic UHW FLEX Product Specification Sheet for detailed technical and performance data.

HEALTH AND SAFETY

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

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.

Repco products are manufactured for:
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