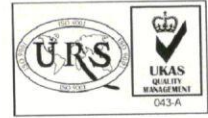


BMW Steels Ltd.

An ISO 9001 Certified Company



WEAR SEAL – DIAMOND™

TECHNICAL DATA

1. ALUMINA CONTENT	:	Min 90%
2. BULK DENSITY	:	2.8 – 3.0 GM / CC
3. WATER ABSORPTION (POROSITY)	:	1-2% (MAX)
4. TEMPERATURE RESISTANCE	:	200 DEGREE CELSIUS
5. COLOUR	:	WHITE
6. THICKNESS PER COAT	:	05-30 mm
7. % SOLID BY VOLUME	:	100
8. POT LIFE AT 25 DEGREE C	:	45 MINS
9. PACKAGE SIZE	:	5 Kg - 40 Kg

DESCRIPTION:

Smooth, non-rusting ceramic epoxy based putty used to repair, recondition and rebuild ceramic lined equipments, cast basalt lined equipments or any other component which is subjected to wear and erosion.

RECOMMENDED APPLICATIONS

1. Repairs in tight spots where a fine flowing putty is required.
2. As ceramic filler in 1-5 mm gaps.
3. Fixing wear resistant equipments.
4. Protection of metal from corrosion.
5. Joining tile-tile or pipe-pipe liners.
6. Lining pumps and wear faces
7. Prevents wear on metal surfaces that are exposed to abrasion and erosion such as bends, pipes, MPOs, MDVs, valves and pumps.
8. Protecting flanges and elbows
9. Ideal for repairing ceramic lined elbows, worn out tiles and gaps.

LIFE AND STORAGE:

A shelf life of 1 year from date of manufacture can be expected when stored at room temperature (22 Deg C) in their original containers.

SURFACE PREPARATION:

Proper surface preparation is essential to a successful application. The following procedures should be considered:

- All surfaces must be dry, clean and rough.
- If surface is oily or greasy use Cleaner Spray to degrease the surface.
- Remove all paint, rust and grime from the surface by abrasive blasting or other mechanical techniques.
- Aluminum repairs: Oxidation of aluminum surfaces will reduce the adhesion of an epoxy to a surface. This film must be removed before repairing the surface, by mechanical means such as grit-blasting or chemical means.
- Provide a "profile" on the metal surface by roughening the surface. This should be done ideally by grit blasting (8-40 mesh grit), or by grinding with a coarse wheel or abrasive disc pad. Do not 'feather edge' epoxy materials.
- Remove all traces of sandblasting, grit, oil, grease, dust or other foreign substances.
- Under cold working conditions, heating the repair area to 38 Deg C - 43 Deg C immediately before applying WEAR SEAL is recommended. This procedure dries off any moisture, contamination or solvents and assists the epoxy in achieving maximum adhesion to the substrate.
- Always try to make the repair as soon as possible after cleaning the substrate, to avoid oxidation or flash rusting.

MIXING:

WEARSEAL is formulated to be a dense mix that can be applied easily to overhead and vertical surfaces without running or sagging. Add the hardener to the resin and mix thoroughly on a mixing board using a spatula. Do not mix in the containers.

APPLICATION:

Spread the compound over prepared surface with a putty knife or similar tool. Press material firmly into all cracks and voids to ensure maximum surface contact and avoid trapping air.

CURE:

A 10 mm thick section of WEAR SEAL will harden at 21 Deg C ideally in about 4 hours. The material will be fully cured in 16 hours. The actual cure time of epoxy is determined by the mass used and the temperature at the time of repair.

BMW Steels Ltd.

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