

DURAFORGE 7045 SP

Repair coating for slurry pumps

Internal reference: BD7045 - Series: DURAFORGE

Product summary

Wear- and corrosion-resistant material suitable for the repair and protection of mining slurry pumps under medium-to-heavy wear and erosion conditions. The service life of the repaired part may reach more than 1.5 times that of a new part.

Typical applications

- Slurry pumps
- Casings and impellers
- Equipment affected by erosion
- Mining and heavy process service

Key benefits

- Excellent impact resistance
- High bond strength to metal
- Good workability
- Resistance to acids, alkalis and hot water
- Significant extension of service life

Main technical data

Property	Value
Colour / state	Grey / Paste
Density	2.4 +/- 0.1 g/cm ³
Compressive strength	> 980 kg/cm ²
Shear strength	> 130 kg/cm ²
Tensile strength	> 430 kg/cm ²
Flexural strength	> 520 kg/cm ²
Hardness	> 85 Shore D
Application method	Trowel
Working time	<= 30 min
Cure time	> 24 h

Property	Value
Full load	> 48 h or 10C 4h + 80C 2h
Service temperature	-60C to 80C
Mix ratio	A:B = 3:1
Primer	Special primer required
Thickness per coat	2 to 20 mm
Packaging	10 kg/set

Recommended procedure

1. Prepare the metal substrate until it is clean, dry and rough.
2. Apply a special primer to the surface to be repaired.
3. Mix A and B in a 3:1 ratio and apply over the uncured primer.
4. Compact firmly and cure before light service or full load.

Application notes

After ambient-temperature hardening, the material may be heated at 80 to 100C for more than 1 hour to obtain more ideal mechanical properties.

Safety and storage

Use gloves, protective eyewear and adequate ventilation. Avoid contact with eyes and skin. Store in a cool, ventilated and dry place; keep away from children, ignition sources and hazardous objects.