

# CORROSHIELD 705 WR

## Wear-resistant and anti-corrosion coating

Internal reference: BD705 - Series: CORROSHIELD

### Product summary

High-performance polymer material, wear-resistant and anti-corrosive, produced from high-performance wear-resistant particles combined with modified cured resin. Suitable for the repair and protection of equipment exposed simultaneously to wear and corrosion demands.

### Typical applications

- Pump casings
- Flotation machines
- Ports and hydropower facilities
- Mining and cement
- Equipment exposed to combined wear and corrosion

### Key benefits

- Excellent wear resistance
- High adhesion to metallic substrates
- Does not flow during application
- Easy to apply
- Suitable for a range of wear-and-corrosion conditions

### Main technical data

Property	Value
Colour / state	Grey / Paste
Density	1.9 +/- 0.1 g/cm <sup>3</sup>
Compressive strength	>= 930 kg/cm <sup>2</sup>
Tensile shear strength	>= 120 kg/cm <sup>2</sup>
Flexural strength	>= 480 kg/cm <sup>2</sup>
Hardness	>= 85 Shore D
Application method	Trowel
Working time	<= 30 min
Cure time	>= 24 h

Property	Value
Full load	$\geq 48$ h or 80 to 100C after 1 h
Service temperature	-60C to 110C
Mix ratio	A:B = 4:1
Thickness per coat	2 to 10 mm
Tested media	HCl 15%, H <sub>2</sub> SO <sub>4</sub> 20%, H <sub>3</sub> PO <sub>4</sub> 30%, NaClO 5%, lime water 50%, NaOH 50%
Packaging	10 kg/set

### Recommended procedure

1. Prepare the part to be repaired, leaving a fresh and rough substrate.
2. Mix A and B according to the 4:1 ratio.
3. Apply and compact the material; work in layers if the thickness exceeds 10 mm.
4. Cure for 24 hours at 25C; curing may be completed with heat if required.

### Application notes

When colour or finish requirements apply, a suitable surface adhesive or top layer may be applied over the cured layer.

### 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.