

ZDS-CeramicArmor™ · CA SERIES

ZDS-CA1189

High-Temperature Carbon-Nano Metal Repair Compound



Product Description

High-Temperature Carbon-Nano Metal Repair Compound

Service Temperature

-60 to 220°C

Mixing Ratio

A:B = 4:1

Cure Schedule

24 h

Core Advantages

- ✓ High wear resistance
- ✓ High-temperature service capability
- ✓ High mechanical and bonding strength

Applications

Valves, shafts, bearing seats and machine surfaces, industrial pipelines; repair and rebuilding.

Technical Data

Density	1.55
Tensile strength	683
Shear strength	148
Service Temperature	-60 to 220°C
Mixing Ratio	A:B = 4:1
Cure Schedule	24 h

Typical Application Parameters

Product Form	Paste
Mixed Color	Typical: Dark grey
Application Temperature	Recommended: 10°C to 35°C
Working Time (25°C)	Typical: 30-45 min
Recommended Layer	Recommended: 3-10 mm
Initial Cure (25°C)	Typical: 4-6 h

Application Guidance & Storage

- Surface preparation: Clean, sound and oil-free substrate; abrade metal or composites and remove dust before application.
- Application: Measure the stated ratio, mix until uniform, then apply and compact to minimise entrapped air.
- Environment: Keep the substrate at least 3°C above dew point. Cold extends cure; heat shortens working time.
- Storage & safety: Store sealed at 5-30°C in a cool, dry place; typical shelf life 12 months. Use gloves and eye protection; consult the SDS.

Application values marked Typical or Recommended are engineering guidance derived from the product type, stated performance and intended use. Confirm critical project parameters by application testing.