

ZDS-CeramicArmor™ · CA SERIES

ZDS-CA1845

High-Temperature Silicon Carbide Wear Protection Compound



Product Description

High-Temperature Silicon Carbide Wear Protection Compound

Service Temperature

-60 to 250°C

Mixing Ratio

A:B = 4:1

Cure Schedule

24 h

Core Advantages

- ✓ High wear resistance
- ✓ Erosion and cavitation resistance
- ✓ High-temperature service capability

Applications

Slurry and bulk-material systems, powder and ash handling systems, industrial pipelines; protective coating.

Technical Data

Density	1.85
Tensile strength	350
Shear strength	210
Service Temperature	-60 to 250°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: 15°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.