KALOCER® TWC Ceramic Filled Epoxy Wear Coating

Protects Material Handling Equipment from Abrasion and Wear

KALOCER® TWC
Ceramic filled epoxy wear coating

KALOCER® TWC is a two-part trowelable epoxy repair compound containing 50% by volume sapphire hard (9 mohs) alumina ceramic beads (Al_2O_3) and silicon carbide particles. Easy to mix and apply, the thixotropic paste is self curing. KALOCER® TWC can be used as a protective coating or to repair worn areas in material handling equipment or components conveying abrasive materials.

How to use KALOCER® TWC:

1. Read the product label and the material safety data sheet furnished with TWC.
2. Clean surfaces before applying. Dirt, oil, water, scale, ice, or wax will prevent adhesion.
3. Mix thoroughly with a spatula. Using a plastic container for mixing retains heat better. The pot life is about 30 minutes.
4. Spread and smooth KALOCER® TWC by drawing a trowel moistened with solvent or water across the surface of the uncured compound.
5. Clean tools and equipment with solvent before TWC cures.
6. Cure time is 4 to 5 hours. Cure can be accelerated by warming with a heat gun. (Altering the A:B ratio will not make the epoxy cure faster.) Cold temperatures will slow or retard the cure and thicken the paste. In colder temperatures, warm mixture to 75°F/24C° before applying. In hot environments, mix smaller quantities.

- Applications up to 450°F/232°C.
- Good thermal shock and chemical resistance.
- Self cures in 4 to 5 hours at 75°F/24°C.
- Apply in temperatures above 40°F/4°C.
- Adheres to metals, fiberglass, concrete, wood, and ceramic tiles.
- Use on elbows, chutes, feeders, pump casings, ducts, cyclones, fans, mill linings, housings, and hoppers.
- Available in a 30 lb/13.64 kilogram kit and a 6 lb/2.73 kilogram trial size.

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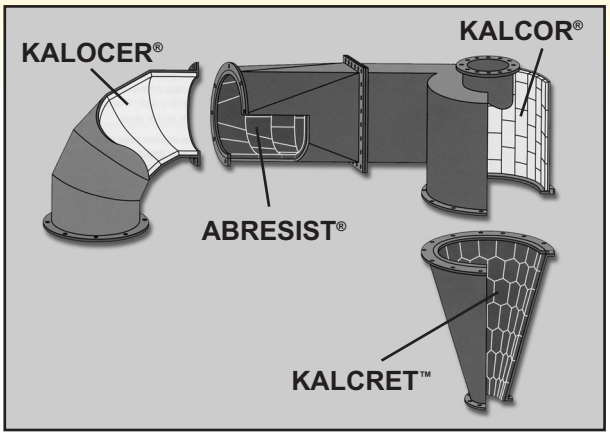
Repairs Worn Areas in Equipment Moving Abrasive Materials

Abresist Kalenborn offers a number of pre-engineered linings matched to each application or used in combination.



Our services include:

- On-site installation or supervision
- Complete steel fabrications
- Variety of attachment methods
- Engineering assistance, including on-site surveys

KALOCER TWC Properties

Property	US	Metric
Tensile Strength, ASTM D-638	6,000 psi	4.14×10^4 kPa
Compressive Strength, ASTM D-695	14,000 psi	9.65×10^4 kPa
Impact Strength	21 ft lb/in notch	.72 W·s/meter
Temperature Limit (½ inch/12.7 mm coating)	400°F constant/450°F intermittent	204°C/232°C
Mix Ratio by Volume	1:1	
Mixed Color	Tan	
Consistency	Non-sag	
Working Time	Approximately 30 minutes	
Cure Time at Room Temperature (75°F/24°C)	4 to 5 hours	
Net Weight, Kit of two 1 Gallon cans/3.79 liter	30 lb	13.64 kg
Net Weight, Kit of two 1 Quart cans/0.946 liter	6 lb	2.73 kg
Coverage, ¼ inch/6.35 mm Thick Coating	12 sq ft per 30 lb kit	1.1 sq. meter/13.64 kg

Technical Data is the result of tests performed on selected samples, and some variations are to be expected. Abresist Kalenborn does not represent, warrant, or guarantee the accuracy, completeness, or reliability of same. Due to the production process, variations in the product may be expected. These include, but are not limited to dimensional tolerances, surface finish, voids, porosity, and hairline fractures.

Experience with:

- Bottom and fly ash
- Dried sewage fertilizer
- Limestone
- Ore
- Cement
- Sand
- Coal
- Grain
- Glass/cullet

kalenborn
The Wear Protection People
Abresist Kalenborn Corporation

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