



2845 Heartland Drive Liberty, MO 64068 (816) 587-1923
Fax: 816 587-2055 eSales@wearcon.com www.wearcon.com





WEAR-CON WC90 CERAMICS

Wear-Con ceramics are available in standard sizes, as well as custom sizes and shapes. There are several ways to install ceramics, including the use of silicone, tile adhesive, welding, or bolting. Wear-Con Ceramics provide resistance to wear from most other materials and working temperatures can be as high as 2300 degrees (F) and can be used to also line elbows and pipes.

Wear-Con also carries a line of Hex Tile which comes in several thicknesses, on 6" x 6" square webbing material. This provides more flexibility in installation.

MECHANICAL PROPERTIES (typical)

Hardness	Moh's Scale:9
Comprehensive Strength	300,000 PSI
Flexural Strength	45,000 PSI
Tensile Strength	24,000 PSI
Max Service Temp	2300 deg (F)

STANDARD SIZES for PLAIN AND WELDABLE

Thickness:	1/4", 1/2", 3/4", 1", 1 1/2", 2"
Sizes:	2 x 4, 2 x 6, 4 x 3, 4 x 6, 4 1/2 x 4 1/2, and 4 1/2 x 9

STANDARD SIZES for HEX TILE

Thickness:	1/8", 1/4", 1/2"
Sizes:	6 x 6

SUGGESTED APPLICATIONS

CEMENT INDUSTRY

- Coal Chutes
- Coal Piping Clinker Chutes
- Cyclone Lining
- Dust Collector Piping
- Coal Mill Pulverizer Lining
- Coal Mill Pulverizer Cone Lining
- Coal Mill Exhauster Lining

GRAIN INDUSTRY

- Dust Collection Piping
- Cyclone Liner
- Drag Conveyor Lining
- Truck Dump Hopper Lining
- Transfer Chute Lining
- Bean Spouts
- Fan Lining



**SUGGESTED USES FOR
WEAR-CON CERAMICS
(cont'd)**

SAND AND GRAVEL INDUSTRY

Transfer Chutes
Cyclone Linings

GRAIN INDUSTRY

Dust Collection Piping
Cyclone Liner
Drag Conveyor Lining
Truck Dump Hopper Lining
Transfer Chute Lining
Bean Spouts
Fan Lining

POWER INDUSTRY

Coal Handling Chute Liners
Downcomer Piper Lining
Stock Feeder Transition Lining
Stock Slide Gate
Pulverizer Housing Liner
Classifier Cone Liner
Coal Conduit Liner
Burner Feed Pipe
Fan Linings
Ash Pipe & Elbows
Glass & Fiberglass
Cullet Chutes & Hoppers
Add-Mix Transport Lines
Fan Housings
Trim Housings
Trim Boards

GLASS & FIBERGLASS INDUSTRY

Cullet Chutes & Hoppers
Add-Mix Transport Lines
Fan Housings
Trim Housings
Trim Boards



WEAR-CON VB96 CERAMIC Wear-Con VB-96 Vacuum Bonded Ceramic can be used in moderate impact areas which would otherwise be inappropriate for ceramic. It provides a strong bond with very thin high alumina content tiles. Wear-Con VB-96 Vacuum Bonded Ceramic can also be applied to existing parts and castings to provide extended life for the parts. It is the strongest attachment method available to insure the maximum wear life of ceramic.

**MECHANICAL
PROPERTIES**

Moh's Scale	9
Tensile Strength	6,000 PSI
Shear Strength	4,000 PSI
	24,000 PSI
Max Service Temp of Bonding Process	250 deg (F) dynamic applications 450 deg (F) static applications
Thickness:	1/16", 1/8", 1/4", 1/2", 1"

**SUGGESTED USES FOR
VB96 CERAMIC**

CEMENT INDUSTRY

Coal Exhauster Fan Blades
Coal Mill Classifier Vanes
Coal Mill Whizzer Blades
Clinker Reclaim Chutes
Limestone Feed Chutes
Clinker Dust Collector Pipe
Separator Blades
Separator Liners
Cyclone Liners
Feeder Pan Liners
Slurry Mixer Blades (Wet System)
Classifier Cone



**Wear-Con Triple-Bead 90
 Ceramic Wear-Compound**

Wear-Con's *Triple-Bead 90 Ceramic Wear-Compound* is resistant to all types of sliding abrasion and provides excellent resistance to fine particle abrasion up to 250 deg F. The ceramic beads are small enough for pump housings, yet large enough for coal chutes. Conforms to irregular and overhead surfaces due to its non-sag paste consistency. With our unique 1 to 1 mix ratio, Wear-Con's *Triple-Bead 90 Ceramic Wear-Compound* is simple to mix and use. Best if applied with expanded metal backing.

**MECHANICAL
 PROPERTIES**

Hardness	85-90 Shore D
Compressive Strength	10,500 PSI
Tensile Strength	4,100 PSI
Max Operating Temp	250 deg (F)
Mix Ratio Resin/Hardener	1 to 1
Working Time	20 - 40 minutes
Functional Time	6 - 8 hours
Color	Grey
Coverage (sf at 1/4" thickness)	28.6 lb kit - 11.83 sf 2.0 lb kit - .82 sf

STANDARD KIT SIZES

28.6 lb Kit	P/N 12490
2.0 lb Patch Kit	P/N 12491
2.0 lb Patch Kit XM	P/N 12492

**SUGGESTED USES FOR
 Triple-Bead 90 Ceramic
 Wear-Compound**

CEMENT INDUSTRY

Coal Pipe
 Dust Collector Pipe
 Separator Lining
 Exhauster Lining
 Pump Housing Repair
 Reject Chute Lining

POWER INDUSTRY

Coal Handling Chutes
 Downcomber Pipes
 Stock Feeder Transitions
 Pulverizer Housings
 Coal Conduit Pipe
 Ash Pump Housings
 Ash Pipe and Fittings

GRAIN INDUSTRY

Cyclone Linings
 Dust Collector Pipes
 Screw Conveyors
 Hammer Mill Transitions
 Grain Spouts
 Fan Linings
 Transfer Chutes

SAND & GRAVEL

Sand Slurry Pumps
 Slurry Pipe
 Transfer Chutes
 Screw Conveyors
 Dump Hoppers
 Cyclone Linings



**Wear-Con Triple-Bead 90
 High-Temp Ceramic
 Wear-Compound**

Wear-Con's *Triple-Bead 90 High-Temp Ceramic Wear-Compound* is resistant to all types of sliding abrasion and provides excellent resistance to fine particle abrasion up to 450 deg F continuous. The ceramic beads are small enough for pump housings, yet large enough for coal chutes. Conforms to irregular and overhead surfaces due to its non-sag paste consistency. With a standard 4 to 1 mix ratio, Wear-Con's *Triple-Bead 90 High-Temp Ceramic Wear-Compound* is simple to mix and use. Best if applied with expanded metal backing.

**MECHANICAL
 PROPERTIES**

Hardness	85-90 Shore D
Compressive Strength	10,500 PSI
Tensile Strength	4,100 PSI
Max Operating Temp	450 deg (F)
Mix Ratio Resin/Hardener	4 to 1
Working Time	20 - 40 minutes
Functional Time	6 - 8 hours
Color	Grey
Coverage (sf at 1/4" thickness)	28.4 lb kit - 11.83 sf 2.0 lb kit - .82 sf

STANDARD KIT SIZES

28.4 lb Kit	P/N 12590
2.0 lb Patch Kit	P/N 12591
2.0 lb Patch Kit XM	P/N 12592

**SUGGESTED USES FOR
 Triple-Bead 90 High-Temp
 Ceramic Wear-Compound**

CEMENT INDUSTRY

Coal Pipe
 Dust Collector Pipe
 Separator Lining
 Exhauster Lining
 Pump Housing Repair
 Reject Chute Lining

GRAIN INDUSTRY

Cyclone Linings
 Dust Collector Pipes
 Screw Conveyors
 Hammer Mill Transitions
 Grain Spouts
 Fan Linings
 Transfer Chutes

POWER INDUSTRY

Coal Handling Chutes
 Downcomber Pipes
 Stock Feeder Transitions
 Pulverizer Housings
 Coal Conduit Pipe
 Ash Pump Housings
 Ash Pipe and Fittings

SAND & GRAVEL

Sand Slurry Pumps
 Slurry Pipe
 Transfer Chutes
 Screw Conveyors
 Dump Hoppers
 Cyclone Linings