

SCProbond™ Solutions in Mineral Processing & Conveyance

Silicon Carbide Applications in Mining & Bulk Material Handling

Reducing unexpected down-time and maintenance is a major priority in any mineral processing and conveyance setting due to rapid capital losses associated. Without the proper lining material, the abrasive effects of grain and fine mineral handling cut equipment lifetimes down to fractions of their potential. SCProbond™ Silicon Carbide liners are abrasion, corrosion, and high temperature resistant components that are custom cast to protect and extend the lifetimes of the aggressive wear areas in these processes. Silicon carbide is a synthetic material exhibiting high performance characteristics including: hardness approaching that of diamond, high strength (gains strength at temperature), and excellent chemical, thermal shock, and wear resistance. Limestone equipment with SCProbond™ SiC lining configurations have performed beyond expect lifetimes and are still in production years after installation.

Typical SiC Applications in Material Handling:

- Hydrocyclone / Cyclone
 - ⇒ Apexes
 - ⇒ Inlet Heads
 - ⇒ Vortex Finders
 - ⇒ Cone Liners
- Quench Vessels
- Vent Blast Tubes
- Inline Chokes/Reducers
- Micronizer/Jet Mill Liners
- Elbows
- Wyes
- Screw Conveyor Linings
- Material Redirects
- Centrifuge / Separation
 - ⇒ Wear Shoes
 - ⇒ Discharge Orifices
 - ⇒ Feed Wall Liners
- Chute Liners
- Slurry Pump Components



Custom NBSiC Chute Liner by SCP—12" x 3" x 24"

Customer Testimonial

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“SCP made a shaft liner for our air separator, the original lasted less than 2 years before it was worn in two pieces. Since we installed [the SCP liner] we have run for two years with no noticeable wear ... Last year we reconfigured a couple feed chutes with all SCP product. The writing from the manufacturing process is still visible after running nearly 80,000 tons of 1/4" minus over it.”

-Limestone Mine Operator and Returning SCP Customer



Custom Screw Conveyor Flight Plate Installed with SCProbond™ epoxy



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