

ONE STOP SHOP
FOR ALL YOUR CONVEYOR NEEDS



RUBBEX WEAR PROTECTION

Heavy-Duty Wear Protection for Heavy-Duty Operations

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WHAT IS WEAR PROTECTION?

Wear protection involves the application of specialized materials and technologies to safeguard industrial equipment from degradation due to abrasive, corrosive, and impact forces. In the mining industry, equipment is subjected to harsh conditions that can significantly reduce its lifespan. Implementing effective wear protection solutions helps in reducing downtime, enhancing efficiency, and lowering maintenance costs.

CAUSES FOR WEAR AND TEAR

In mining and heavy industries, wear and tear are primarily caused by:

- **Abrasive Wear:** Continuous contact with hard materials such as ore, rock, and sand that scrape and erode surfaces.
- **Impact Wear:** Sudden shocks or collisions caused by falling or moving materials.
- **Corrosive Wear:** Chemical reactions with slurry, moisture, or acidic materials.
- **Cavitation and Erosion:** Fluid turbulence and high-velocity flows causing pitting and surface damage.
- **Temperature Fluctuations:** Frequent heating and cooling cycles leading to cracking or material fatigue.

SOLUTIONS FOR WEAR PROTECTION

To address wear challenges, customized wear protection solutions are deployed depending on the severity and type of wear. These solutions include:

- **Rubber and Composite Linings:** Offer flexibility and impact resistance.
- **Polyurethane and Ceramic Components:** Provide excellent abrasion resistance.
- **Chrome Carbide Overlay Plates:** Suitable for high-stress, high-abrasion applications.
- **High-Performance Wear-Resistant Steel:** Designed for extreme durability

Each solution is selected based on operational conditions, budget, and equipment type.

PRODUCTS WE OFFER

RUBBER LINING

Rubber linings are extensively used in mining to protect equipment from abrasion, corrosion, and impact. They are ideal for chutes, hoppers, pipelines, and slurry tanks. Rubber linings absorb energy and reduce wear, significantly extending equipment life. Custom-molded or cold-bonded options are available.



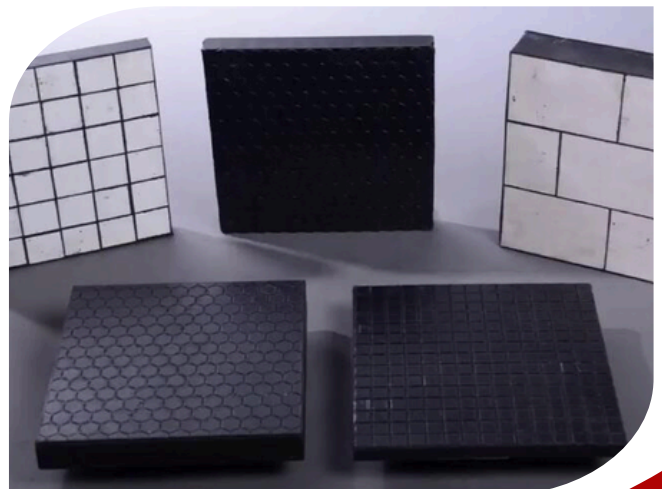
PU / UHMWPE LINER

Polyurethane (PU) or UHMWPE liners are engineered for high-impact zones. With superior resilience and flexibility, these liners prevent damage from heavy impacts and reduce noise levels in operational areas. They are suitable for screening applications, material transfer points, and vibrating equipment.



RUBBER-BACKED CERAMIC TILES

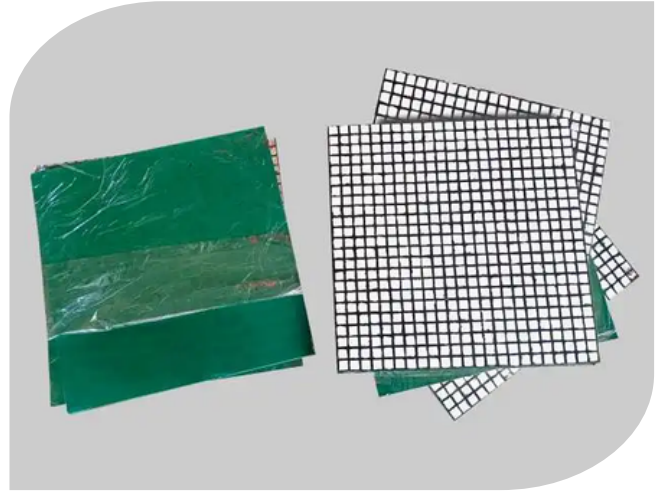
Combining the strength of ceramics with the shock-absorbing ability of rubber, these tiles are ideal for highly abrasive environments. The ceramic surface handles extreme wear while the rubber backing ensures bonding and impact resistance. They are widely used in transfer chutes, bins, and cyclone spigots.



PRODUCTS WE OFFER

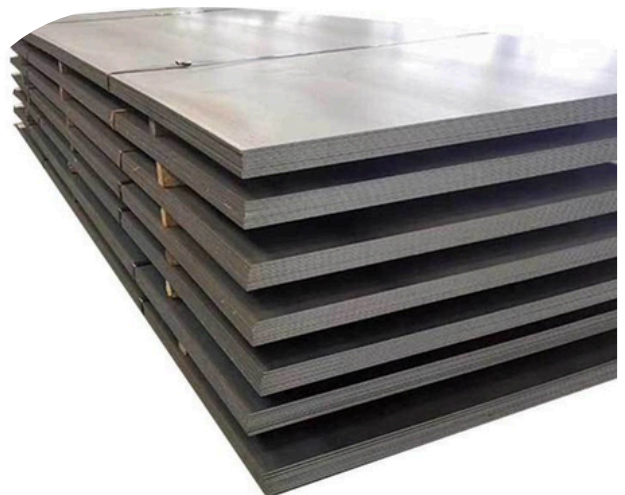
CERAMIC LINING

Pure ceramic linings offer unmatched hardness and are designed for extremely abrasive and corrosive applications. They are typically used in pipelines, elbows, separators, and material handling systems where metal or rubber linings may fail quickly.



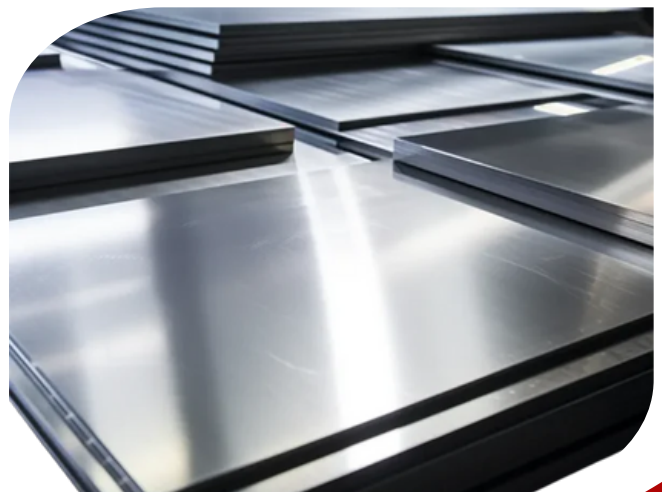
CCO PLATE LINING

CCO plates are manufactured by overlaying wear-resistant chromium carbide on a steel base. These plates offer excellent hardness and are ideal for high-stress, high-abrasion applications. They are used extensively in conveyor systems, mining buckets, and crushers.



HARDOX PLATE LINING

Hardox wear plates are made from high-tensile, hardened steel designed for extreme durability. They provide reliable protection in impact-prone areas such as hoppers, crushers, and dragline buckets. Easy to cut, weld, and install, they are a robust choice for harsh mining conditions.



INDUSTRIES & APPLICATIONS

Industries

- Mining & Mineral Processing
- Cement & Aggregates
- Power Generation
- Steel Plants
- Coal Handling Plants
- Chemical & Fertilizer Industries

Applications

- Material handling systems
- Transfer chutes and hoppers
- Slurry pipes and bends
- Conveyor systems
- Truck beds and silos
- Classifier and cyclone linings

WEAR RESISTANCE COMPARISON CHART

Material Type	Abrasion Resistance	Impact Resistance	Temperature Resistance	Flexibility	Application Suitability
Rubber Lining	★★★★☆☆	★★★★★☆☆	★★★★☆☆	★★★★★★★	Moderate wear areas
PU / UHMWPE Liner	★★★★☆☆	★★★★☆☆	★★★★☆☆	★★★★★☆☆	Light to medium wear
Rubber-Backed Ceramic Tiles	★★★★★☆☆	★★★★★☆☆	★★★★★☆☆	★★★★☆☆	High impact + abrasion
Ceramic Lining	★★★★★★★	★★★☆☆☆☆	★★★★★☆☆	★★☆☆☆☆	Extreme abrasion zones
CCO Plate Lining	★★★★★☆☆	★★★★☆☆	★★★★★★★	★★★☆☆☆☆	Heavy-duty mining parts
Hardox Plate Lining	★★★★★☆☆	★★★★★★★	★★★★★☆☆	★★★☆☆☆☆	Impact-heavy applications

WHY CHOOSE US?

- Customized Solutions: Tailored to specific equipment and operational challenges.
- High-Quality Materials: Sourced from trusted suppliers.
- Professional Installation: Ensuring long-lasting performance.
- Reduced Downtime and Maintenance Costs: Through reliable wear protection.

CHOOSE THE RIGHT PROTECTION, EXTEND YOUR EQUIPMENT'S LIFE

Whether you're facing high-impact zones, abrasive flow, or extreme slurry environments, we offer tailored solutions to ensure maximum productivity and reduced maintenance.

Contact us today for a consultation.

OUR GLOBAL PRESENCE

- 
- 📍 RBK International Gulf LLC Dubai, United Arab Emirates
 - 📍 RBK International (SG) Pte Ltd – Singapore
 - 📍 PT RBK International Indonesia – Indonesia
 - 📍 RBK International (UK) Ltd – United Kingdom
 - 📍 RBK Industries Limited – India
 - 📍 RBK International (Canada) Ltd – Canada
 - 📍 RBK International (Australia) Pty Ltd – Australia
 - 📍 RBK International Benin SARL – Benin
 - 📍 RBK International Netherlands B.V. – Netherlands

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