

**Industry**Cement Manufacturing

Annual Production Capacity
9 Million Metric Tonnes
3 production lines

Primary Equipment

Loesche Vertical Roller Mill

Line 1 - 540 t/h capacity

# The Challenge

A large cement manufacturing facility processes a highly abrasive grade of limestone, presenting a significant challenge to equipment longevity.

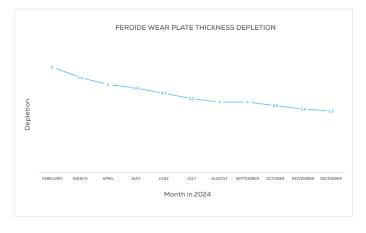
The highly abrasive environment regularly caused the rapid degradation of raw mill wear liners, resulting in:

- Frequent unscheduled maintenance
- · High production downtime costs
- Increased labour and parts expenses

Previous wear liner solutions typically only lasted 2-4 months.

#### The Solution

Following the impressive results of a 4-month trial, the plant implemented Ferobide across critical zones on Production Line 1.



## Impact at a Glance

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Reduced unscheduled maintenance

70

Lower total cost of ownership

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Improved mill uptime and operational efficiency

Previous Solutions	Lifespan
Premium Chromium Carbide Overlay (10+6mm)	3-4 months
Abrasion-Resistant Steel (20mm)	~2 months
Ferobide Plates (6+6mm)	Over 13 months (Ongoing)

#### **Ongoing Results**

√ 1,500 Ferobide plates installed (Feb 2024)

>> Supported over 3 million tonnes of production

✓ Less than 50% wear volume loss recorded

Outperformed previous solutions in both durability and cost-effectiveness

### **Next Steps**

Based on this success, the plant is preparing to expand Ferobide implementation to raw mills on all three production lines.