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2014

Customer Story

Wear protection solutions for
tight schedule situations





SITUATION

Cement industries is one of the major process industries where high wear happens. This results in energy, time, monetary losses and the most important is production loss which happens due to [unplanned shutdown](#).

For one of our big customer in Middle east, the raw mill fan casing was undergoing significant wear and needed fixing. Wear resistant plates were used but had to be changed [twice a year](#). It was planned to be lined with wear resistant liners but [installation time was more](#). Then the concept of mosaic mats came into picture which had the same life as wear resistant liners but required lesser installation time.

CHALLENGE

Mosaic mats, though being effective with lesser installation time is relatively a newer concept and acceptance of such a change is a challenge. Technically, mosaic mats is better for inner diameter lining than outer diameter lining. As there are large number of ceramic tiles involved in mosaic mats, the notion is that it would be highly prone to vibrations which is not the case.

SOLUTION

Mosaic mats were pre-engineered with tiles' dimension being 50*50*6 mm (6 mm - thickness) to match the layout of the Raw Mill fan case and lined with RTV silicone adhesive . Tile thickness can vary [from 15 mm to as low as 1.5 mm](#). Mosaic ceramic mats in the near future will be a boon for process industries with high wear and time constraint.

RESULTS

The lifespan of mosaic mats is [10 times more](#) than wear resistant steel plates with [only 0.5 mm thickness](#) reduction in the past year. Due to the lesser installation time than wear resistant ceramic liners, Our customer has planned for Mosaic mat lining in raw mill cyclone and mill outlet duct in 2018-2019. This is in sheer contrast to the earlier situation with wear resistant steel plates which was getting eroded every year and thus leaking materials and ultimately leaking profits.

~40%
reduction in repair
time, extremely
useful for
emergency
situations.

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