SAG MILL POLYUREA RELINE

INDUSTRY	Mining
CLIENT	Egyptian Gold Mine
DISTRIBUTOR	ShieldCrete International 1800 364 776 www.shieldcreteinternational.com
APPLICATOR	ShieldCrete Philippines Inc.
PROJECT	Application of Polyurea to Sag Mill to replace rubber under the wear plates.
LOCATION	Egypt
SYSTEM	Application of ShieldPoly F-15 to 6mm.
DATE	August 2021

Description

The operators of the gold mine wanted a way to protect their assets from the high levels of corrosion that can be found on site. This project profile covers the Sag Mill re-lining.

ShieldPoly F-15 was selected due to its superior physical properties, technical support, and proven performance. In this case ShieldCrete International managed the project along with our sub-contractors. The ShieldPoly was applied underneath the wear plates to a thickness of 6mm on the internal walls of the mills to prevent the issue of corrosion that commonly occurs with the rubber lining alternatives, particularly at the rubber seams.

The fast-curing attributes of ShieldPoly F-15 meant that the site shutdown time was kept to the bare minimum, and we even came in under time. An Inspection and Test Plan (ITP) was maintained for the entire project and the customer and ShieldCrete site manager checked and signed off on the project at the end prior to installing the wear plates.

The coating was applied to the 6mm depth upon consultation with the client. Coating to 6mm thickness allows for ample abrasion and corrosion protection with minimal dimension changes to the sag mill. This application provides a seamless liner that will outlast the rubber that it replaced. ShieldPoly has an excellent combination of high tensile strength, high elongation, and high hardness (although hardness is less important for abrasion resistance of polyurea).

The client was very happy with the results and the applicators then moved onto the general steel coating.

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