



Lincoln Electric Company Multi-year plan revitalizes plant roofs

Mentor, Ohio

Preventing water from making a situation explosive.

A leaky roof at Lincoln Electric's Mentor, Ohio, plant could actually cause an explosion. The plant's chemical storage area held dry magnesium, which can explode if it gets wet. So if enough water leaked from the roof into the magnesium's storage container...

In 1998, that frightening idea helped lead Lincoln Electric to ask Tremco for a long-term plan to restore its 600,000 square feet of tar-and-gravel covered roofing. Tremco sales representatives Joe Slattery and John Stehli and a team from Warren Roofing examined the roof, finding it badly blistered, damaged and leaking in numerous areas.

The roof is being torn off according to the plan, which is based on Lincoln Electric's priorities, through 2005. A THERMastic® Built-Up Roofing system with a base sheet and three glass plies is being installed in its place. THERMastic systems use hot-melt adhesive as both the inter-ply adhesive and protective top pour, providing a roofing system that is puncture resistant, flexible, and watertight. It is also very durable, a key advantage to Lincoln Electric because the roof gets much foot traffic.

Lincoln Electric and its insurer demanded that the new Tremco roof be properly designed and installed, and that all industry safety standards be rigorously enforced (particularly FM Global Class 1A90). Tremco and Lincoln Electric have worked together closely throughout the length of the project, to ensure that it goes as smoothly as possible in meeting these and all other requirements. Disruption to any of Lincoln Electric's operations has been minimal.

A 15 Year QA Plus Agreement warranty will protect the roof through a regular program of inspections and maintenance.

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THERMastic Built-Up Roofing System

- Hot-melt adhesive made of high quality, un-blown asphalt modified with select S.E.B.S. polymer for superior elongation, recovery and adhesion
- Multi-ply system for greater performance
- Uniform consistency with every batch
- Maximum resistance to exposure, movement

15 Year QA Plus Agreement

- Provides roof inspections, preventive maintenance and housekeeping services in specific years during the agreement's life

PROJECT PROFILE

