

Mining & Mineral Processing Protective Coatings



Coat New Equipment or Repair Deterioration

Mining and mineral processing requires man and machines against Mother Earth. When this constant abuse impacts equipment performance, the best way to improve the odds is by using tough ArmorThane coatings.

Advancements made in Polyurea and Polyurethane provide maximum protection against friction and corrosion of mining operations. Extending the life of equipment saves millions in replacement costs and downtime.



Applications for the Mining Industry

If equipment rusts, deterioration accelerates. Every piece of equipment that is or can be damaged and worn during extracting, moving, preparing and refining product should be coated. This includes sluices, gates, trommels, conveyors, ore cars, diggers, crushers, cleaners, pipes, truck beds, tanks and steel structures.

In addition to creating corrosion resistance, impact protection, and abrasion barriers, these coatings reduce noise and vibration that can cause extra wear on bolts and gears. Coatings can be applied with various textures for slip resistance.

The Most Durable Protective Coatings Available

Safe for All Environments

Our wide range of products and processes allow applicators to spray in warm, humid climates or extreme cold. Once we know the extent of conditions, we make sure the project will yield maximum performance.

ArmorThane products contain no VOC's or solvents so coating is not volatile and will not harm the environment. Our technical staff trains all applicators to ensure top quality projects.



Mobile Coatings

No longer does the mining climate prevent onsite application. Today, our innovations in chemical development, application processes and mobile equipment allow coating products to be sprayed any time, any place. Unlike many other companies, we build custom trailers to meet your specifications. ArmorThane has all of the high-pressure equipment and supplies needed to be fast and efficient.



Pigmenting Mining Equipment Surfaces

While no coatings are more durable than ArmorThane, the reality is that any coating will eventually wear thin from this constant friction on equipment. By applying two coatings with different colors, maintenance teams have a visual inspection marker. For example, the base coat can be Caution Orange with a topcoat of Grey polyurethane. When the Caution Orange starts to show beneath, it is time to schedule a quick spray-on repair.



Beyond Equipment

In addition to equipment, the entire corrosion-susceptible environment will benefit from being sprayed with plural-component polymers. ArmorThane products coat steel, concrete, wood and various geotextile materials.

If primary or secondary containment is a concern, leaks are prevented by creating a seamless membrane even when filled with fuel, waste or other corrosive and caustic liquids. These coatings will not leach into or absorb contained materials.

Polyurethane spray foam is used to fill cracks, reinforce rock stability, preventing minor groundwater inflow and improving ventilation controls. It even seals vacated mine shaft openings.



Products and Processes Match Your Coating Needs

We have a number of coatings which are applied to mining and mineral processing projects. Please visit product pages on our website or call for specifications on these key items:

- HighLine-310 polyurea
- HighLine-510 pure polyurea
- UltraTech pure polyurea
- SureGrip soft polyurea
- ArmorFoam polyurethane expanding foam

In addition, ArmorThane has coating products developed to help industries solve a variety of problems. Benefits may include:

- Coat multiple surfaces
- Protect against extreme temperatures
- Resist corrosion and abrasion
- Protect against high wear
- Create a leak-proof barrier
- Improve slip and skid resistance
- Add permanent color coding, signs
- Create a blast-resistant barrier
- Repair and prevent cracks

Your goal is to repair and ensure long-term protection of equipment and structures against abusive elements found in industrial settings. Ours is to help you apply the right solutions.



Protecting Your World

ArmorThane is a multi-national company founded by Garry Froese, CEO, in 1989. We have facilities in the U.S. and Canada and export to large dealers around the world.

We specialize in the development, manufacturing and distribution of top-quality protective coatings, as well as the design and fabrication of commercial application equipment. Our products include pure and specially-formulated hybrid polyurea and polyurethane with spray and roll-on applications. We provide low and high-pressure spraying equipment and supplies for fixed locations. Plus, we custom-build mobile coatings units for travel to any project site.

In addition to Mining projects, thousands of applications benefit from ArmorThane's protective coatings. If you would like to know more about specific products and applications, just give us a call.

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