



King of Prussia, PA – April 5, 2017

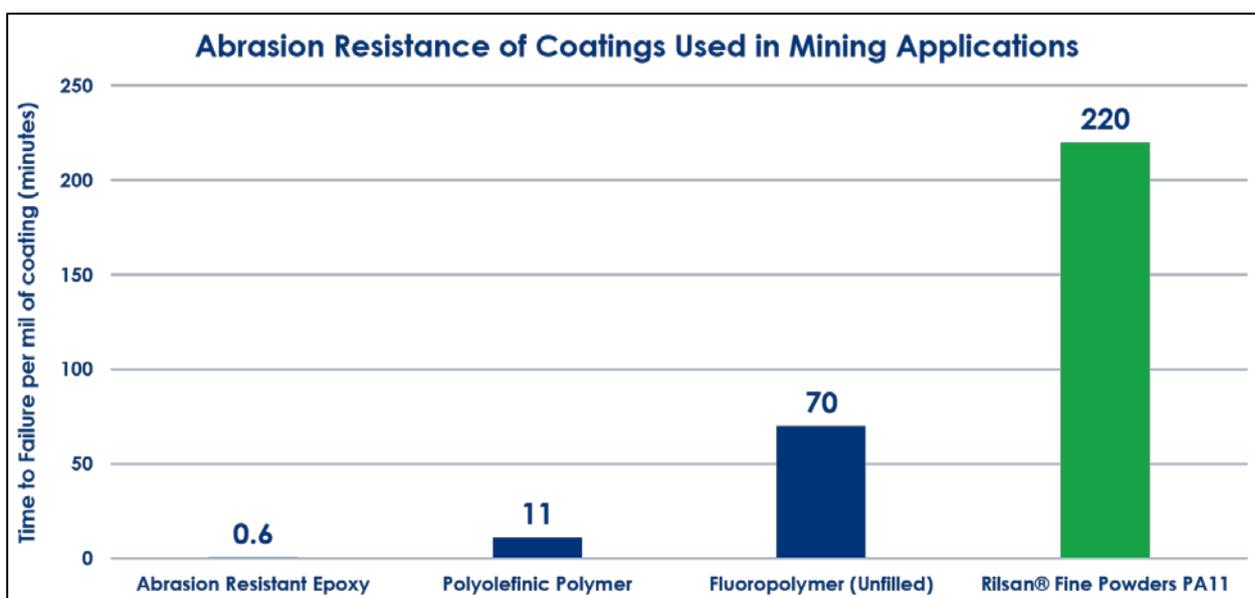
Rilsan® Polyamide 11 coatings exhibit better abrasion resistance when tested against several other coatings used in mining

Arkema's Rilsan® Polyamide 11 coatings were found to have three times the abrasion resistance of competing coatings solutions based on a custom designed abrasion test conducted by the Fisher Company, an approved coating applicator of Rilsan® Polyamide 11, also known as Rilsan® Fine Powders. The Fisher Company, based in North Salt Lake, Utah, US, is a specialized coating applicator that supports the mining, fluids, and semiconductor industries. The company actively tests coatings and their adhesion to metal substrates as part of its innovation program.

In the test, Fisher technicians filled a container with an aggressively abrasive slurry (50:50 water and red garnet blast media), then coated impellers were spun in the mixture until the underlying metal was exposed. The failure time was precisely captured by a timer connected to an apparatus sending a current through the water. When the metal substrate became exposed, the electrical circuit closed, triggering a switch to stop the timer. Several types of thermoplastic and thermoset coatings (shown below) were evaluated using this method.

Conclusions from the test

After testing three samples for each type of coating, the average time until failure (minutes per mil of coating erosion) was calculated. In Fisher's test, Rilsan® polyamide 11 coatings were shown to have better abrasion resistance than competitive coating solutions, **lasting over 3 times longer** than the next best material during the tests.



Rilsan® Fine Powder coatings offer a solution for the most demanding applications. Outstanding mechanical properties include impact resistance, flexibility, abrasion resistance, a characteristic grip,

and warm-to-the-touch feel. The Rilsan® brand has become a preference for industries looking for a durable solution in metal protection applications, such as automotive, oil and gas, mining, and fluid transfer.

Rilsan® Fine Powders are derived from castor oil, a 100 percent plant-based, natural, non-toxic, renewable resource. With Rilsan® Fine Powders, Arkema offers an excellent way to combine eco-responsibility with high performance.

For more information about Rilsan® Fine Powder coatings for the mining industry, visit our website and download our brochure at www.rilsanfinepowders.com. You also can directly contact our team at info.rfp@arkema.com.

Download the case study [here](#).

Also visit ark.ma/RFPapp to learn about the Rilsan® Fine Powders iOS app.

*A designer of materials and innovative solutions, **Arkema** shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans high-performance materials, industrial specialties and coating solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €7.5 billion in 2016, we employ approximately 20,000 people worldwide and operate in close to 50 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in bio-based products, new energies, water management, electronic solutions, lightweight materials and design, home efficiency and insulation. www.arkema.com*

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