

WATER-BASED REZIANCE P-6001G

Water-based solution for impregnation of woven yarns for brake linings in mining winders

SUCCESS STORY



STARTING POINT & CHALLENGE

Solvent-based phenolic resins are conventionally used to formulate the impregnation mixture for treating woven technical yarns for brake linings in mining winders and winches.

The company Kapabrake in Cape Town, South Africa, approached ASK Chemicals with the following requirements:

- Eliminate harmful solvent emissions during mixing and curing
- Assist with the formulation of a suitable water-based impregnation mix to deliver a medium-high friction coefficient with superior fade resistance

SOLUTION

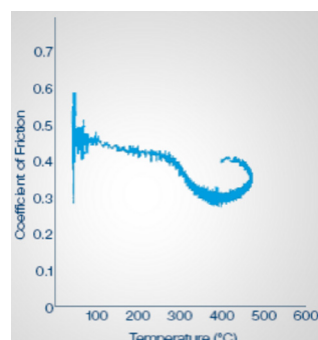
- ASK Chemicals recommended a water-based phenolic resin: Reziance P-6001G
- A mix formulation was designed that contains a variety of friction generators.

RESULTS

- Significant decrease in emissions and smell during the mixing and curing processes
- Improved workplace health conditions
- Best-in-class winder linings in terms of fade-resistance and friction-recovery (above 380°C) as well as heat dissipation (from 570°C peak temperature)

TECHNICAL PROFILE REZIANCE P-6001G

Reziance P-6001G is a water-based phenolic resole resin which can be cured by heat or acid catalyst. The resin is readily miscible with additional water in the mix.



BENEFITS AT A GLANCE

Technological

- Superior heat resistance from the phenolic resin
- Excellent recovery of the friction coefficient at high operational temperatures

Workplace

- Reduced emissions in the workplace

Safety

- Peace-of-mind safety for mineworkers due to the superior stopping power of linings made with Reziance P-6001G

 **Reziance**
Engineered resin solutions