

TECHNICAL DATA SHEET

P317

V1-10/06/2024

HI PERFORMANCE EPOXY CRUSHER BACKING COMPOUND

DESCRIPTION & USE

P317 is a 2-component, non-shrink, high strength, epoxy fluid grout, designed as a crusher backing system for metal wear plates found in large rotary crushers and large 2m cone crushers. The high impact, compression and tensile strength forms a resilient backing material to improve the life span of liners in the mining industry.

BENEFITS

- 100% solids
- Non-hazardous
- Non-flammable
- Saves downtime and maintenance costs.
- Easy and safe to use.

COLOUR	: Grey
Nº. OF COMPONENTS	: 2
MIXING RATIO (WEIGHT)	: 10 : 1
CONSISTENCY	: Fluid Grout
VOLUME SOLIDS	: 100%
MIXED DENSITY	: 2.0
PRACTICAL SPREAD RATES	: 1m ² /l
POT LIFE @ 25°C	: 1 hr
HARD DRY @ 25°C	: 8 hrs
PRACTICAL CURE @ 25°C	: 24 hrs
FULL CURE	: 7 days
APPLICATION TEMPERATURE	: 15 to 40°C
OPERATING TEMPERATURE	: -20°C to +60°C
CLEANING EQUIPMENT	: P701 WSBC
STORAGE TEMPERATURE	: 15 to 40°C
SHELF LIFE	: 12 months
PACK SIZE	: 15 Kg (7.5ft)

PROPERTIES

- Compressive Strength:
 - 50mPa after 48 hrs @ 25°C
 - 108 mPa after 7 days @ 25°C
- Self-Levelling
- Pourable

CHEMICAL RESISTANCE

Resistant to most dilute acids & alkalis, petroleum products & salt water.

PREPARATION PRIOR TO APPLICATION

Store backing material and concaves between 20 and 25°C the day before application.

Backing surface of concaves must be clean and free of oil, grease and dirt.

Apply a thin coat of release agent to all surfaces of the bowl or mantle to allow future removal of worn liners.

NOTE: Do not apply release agent to the liners.

Seal all gaps with P204 Epoxy Putty Lite

If the ambient temperature is below 15°C use hot air or gas torches to bring the steel temperature to between 25 and 35°C.

MIXING

Thoroughly mix the resin and activator in the proportions given, using a slow speed mechanical mixer. Ensure to scrape the sides of the large container and mix for 2 to 3 minutes until a uniform colour is obtained. Allow to stand for +/- 5 minutes to allow air bubbles to escape.

APPLICATION

Pour the mixed resin into several areas around the concave ring cavity ensuring the following precautions.

Allow trapped air to escape.

A gap of more than 20mm must be allowed for horizontal flow at 25°C. Do not apply below 15°C as the compound will become less fluid.

Epoxy resin grouts build up heat as they begin to gel due to an exothermic reaction process, especially when large volumes are poured. Contact our technical department for advice.

The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.



TOXICITY

Although P317 Hi Performance Epoxy Crusher Backing Compound is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resin systems be adhered to. Refer to the 16-point Material Safety Data Sheet.

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