

# TECHNICAL DATA SHEET

## P321

### HI WEAR EPOXY

V1-31/03/2024

#### DESCRIPTION

P321 Hi Wear Epoxy is an advanced epoxy resin system containing alumina ceramic beads, especially designed to give long lasting protection to plant equipment subjected to high abrasion.

#### PROPERTIES

- Compressive Strength: 90mPa @20°C
- Tensile Strength: 35mPa @ 20°C
- MOH Hardness: 9
- Excellent Abrasion Resistance
- Excellent Erosion Resistance
- Excellent Corrosion Resistance
- Good Adhesion
- Water Smoothable

#### RECOMMENDED AREAS FOR USE

Lining of equipment subject to abrasion, such as:

- Slurry lines
- Feed chutes
- Hoppers
- Chests and settling tanks
- Cyclones etc.

<b>COLOUR</b>	: Light Pink
<b>Nº. OF COMPONENTS</b>	: 2
<b>MIXING RATIO (WEIGHT)</b>	: 2 : 1
<b>CONSISTENCY</b>	: Thick Mortar
<b>VOLUME SOLIDS</b>	: 100%
<b>MIXED DENSITY</b>	: 2.4
<b>PRACTICAL SPREAD RATES</b>	: 1m <sup>2</sup> /ℓ
<b>DRY FILM THICKNESS</b>	: 4 – 6 mm
<b>POT LIFE @ 25°C</b>	: 1 hr
<b>TOUCH DRY @ 25°C</b>	: 4 hrs
<b>HARD DRY @ 25°C</b>	: 12 hrs
<b>FULL CURE</b>	: 7 days
<b>APPLICATION TEMPERATURE</b>	: 10 to 40°C
<b>OPERATING TEMPERATURE</b>	: -20°C to +60°C
<b>RECOMMENDED NO. OF COATS</b>	: 1 - 2
<b>CLEANING EQUIPMENT</b>	: P701 WSBC
<b>APPLICATION METHOD</b>	: Trowel
<b>STORAGE TEMPERATURE</b>	: 10 to 40°C
<b>SHELF LIFE</b>	: 12 months
<b>PACK SIZE</b>	: 3 & 15 Kg

#### CHEMICAL RESISTANCE

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

#### SURFACE PREPARATION

All surfaces must be clean & mechanically sound and free of oil, dirt & dust.  
Grit blast to achieve a minimum angular profile of 125µm.

#### MIXING

Thoroughly mix the resin and activator in the proportions given using a slow speed mechanical mixer.  
Ensure complete homogenous mixing.

#### APPLICATION

Using a steel trowel or gloved hand apply the mixed compound at a thickness of 4 - 6mm.  
Wipe smooth by spraying water onto the trowel using a hand pressure sprayer.  
Use all mixed material within 50 minutes @ 25°C.

#### TOXICITY

Although P321 is relatively non-toxic, it is recommended that the normal precautions in dealing with conventional epoxy resin systems are adhered to. Refer to the 16-point Material Safety Data Sheet.

#### HOW TO SPECIFY

All equipment to be prepared and lined with P321 Hi Wear Epoxy in accordance with the manufacturer's instructions.

*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.*

