

Polymet Industries (LLC)

Material Safety Data Sheet

PolyChemcoat

Product Description:

PolyChemcoat is a two component epoxy adhesive based on a high grade epoxy mortar system with superior chemical resistance and application properties. It can be applied on a variety of substrates.

Advantages:

- Chemical resistance.
- Shrinkage free and high grab.
- Can be used horizontally and vertically.
- Damp proof resistance.
- High bond strength
- Impact and vibration resistant
- Excellent adhesion

Suitable Substrate:

- Concrete
- Steel
- Aluminium
- Stainless steel
- Fibreglass
- Wood
- Rubber

Laboratory Test Data:

Property	Typical Results
<i>Density</i>	<i>Approx 1.5 Kg/litre.</i>
<i>Pot life</i>	<i>60 minutes at 25 deg C</i>
<i>Strength</i>	<i>>55 MPa at 7 days</i>
<i>Bond Strength Concrete</i>	<i>>3 MPa (concrete failure)</i>
<i>Steel</i>	<i>>8 MPa</i>
<i>Fibreglass</i>	<i>>1 MPa (Fibreglass failure)</i>
<i>Compressive Strength</i>	<i>65 MPa at 7 days</i>
<i>Tensile Strength</i>	<i>15 MPa at 7 days</i>
<i>Water Absorption</i>	<i>0.10%</i>
<i>Curing Time</i>	<i>90% Strength in 24 hrs @ 25 deg C</i>

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Packaging:

Part A: 4.0 kg

Part B: 4.0 kg

Net 4 Kg + 4Kg Plastic bucket (Part A and Part B)

Shelf Life:

Store in dry condition between 5 to 30 deg C. The shelf life is 12 months from date of manufacture when unopened and stored properly. Store unmixed material in a cool air conditioned environment.

Substrate Preparation:

Surface preparation is important. All surfaces should be dry, clean, free from standing water, grease, curing compounds, mould oils and all loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding.

Mixing:

Mix component A and B together thoroughly with slow speed drill for 2 to 3 minutes (max 400 R.P.M).

Application:

PolyChemcoat is applied in one coat at a thickness of 1 to 5mm. To achieve a uniform thickness, the mortar should be spread with a serrated trowel. Do not spread more than 0.5 SQM at a time. Spreading larger areas may result in the compound drying out before the material can be stuck to the adhesive, resulting in poor adhesion. The actual open time will vary according to the ambient conditions.

Trail Area:

Due to the wide variety of substrates, and methods of fixing used in construction it is recommended that a trail area to be carried out prior to commencement of works and pull off tests carried out.

Health and Safety:

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes. Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces. Do not expose products to fire or naked flames under any circumstances.

All the information contained in this technical data sheet is believed to be accurate, but they cannot be retained as a written warranty. They do not represent any assurance of properties and fitness for the use of the product. The above specifications may be varied at any moment without notice.