



## TECHNICAL DATA SHEET

# Bondex-421P Bonding Primer

### Description

**BDX-421P** is a water-based epoxy primer with exceptional bonding properties.

The primer has been designed to successfully bond coatings and other systems to dense and difficult surfaces such as; ceramic tiles, quarry tiles, timber, concrete and modified cementitious screeds, formica and countertops etc.

### Features & Benefits

- Nonylphenol free.
- 100% Solid.
- Fast curing.
- Long pot life.
- Low odour.
- Enhances adhesion on a range of substances.
- Tools cleaned with water.
- Excellent adhesion and bonding: Adheres to many types of surfaces and is an excellent bridge to bond subsequent systems.

### Packaging Kit

- 1kg kit - Component A & B
- 2.5kg kit - Component A & B
- 5kg kit - Component A & B

### Coverage

Coverage varies widely due to the profile of different substrates:

- 1kg covers 7 to 10 m<sup>2</sup>
- 2.5kg covers 7.5 to 25 m<sup>2</sup>
- 5kg covers 35 to 50 m<sup>2</sup>

These coverage figures given are given for guidance only. practical coverage rates may vary due to wastage factors and the type, condition, and profile of the substrate.

\* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and site condition, profile, and porosity of the substrate.

### Substrate Requirements

Requirements as follows:

- The concrete substrate must be prepared mechanically to achieve an open texture surface using a captive shot blast machine or diamond grinding.
- Free from cracks and fissures. if any, they must be previously treated (we recommend Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues, laitance, and contaminants.

\*Inadequate preparation will lead to loss of adhesion and failure.

### Tensile Adhesion Strength

>1.5 N/mm<sup>2</sup> to concrete

### Compressive Strength

>25 N/mm<sup>2</sup> to concrete

### Environmental Conditions

Optimum ambient temperature range is 15 – 25°C. Localized heating (electric powered warm air blower) or cooling equipment may be required outside this range to achieve ideal temperature conditions.

The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, relative humidity at less than 75%. (ideally between 50-65%) from before priming, to at least 48 hours after application.

Installations outside of the above parameters will affect the cure period, surface finish and strengths.

### Mixing

Pour the hardener component B into the resin component A and mix both components for a minimum of 3 minutes using a low-speed paddle mixer (300-400 rpm). Product can be diluted with water up to 10%. Use a spatula to scrape the sides and bottom of the bucket. To ensure proper mixing, pour the resin into a clean bucket and mix for 1 further minute.

### Product Application

Once mixed, the primer should be applied at 100-120g/m<sup>2</sup>. Work the primer into the surface using a roller or brush. **Bondex 421P** will finish with a smooth surface. Ensure enough primer is used to completely seal the surface.

### Technical Information

<b>Curing Schedule 20°C</b>	Touch Dry Recoating	2 - 4 hrs Within 24hrs
<b>Shelf Life</b>	Resin & Hardener:	12 Months
<b>Pot Life</b>	Temp 20°C	50 Minutes
<b>Storage</b>	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.	



## TECHNICAL DATA SHEET

# Bondex-421P Bonding Primer

### Chemical Resistance

See Chemical Resistance Chart.

### Appearance

White opaque liquid.

### Technical Advice

For further information on this or any other Sindec product, please contact our office.

### Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >75% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is or is anticipated to be <10°C during the application or within the curing period.

The design strength of the substrate concrete surfaces must be a minimum of 25 N/mm<sup>2</sup> compressive strength at 28 days. Compact and cohesive pull of test must show a minimum resistance of 1.4 N/mm<sup>2</sup>.

The manufacture of **Bondex-421P** is a batch process and despite close manufacturing tolerances, colour variation may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared. Touching up should only be attempted using product from the same batch.

### Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potentially dangerous reactions.

Any remaining parts A and B of the same product should be mixed and allowed to cure before disposal.

### Health & Safety

Before using this product, please ensure that you have received and read the product Material Safety Data Sheet. Refer to the hazard labelling on the product. Always wear gloves and goggles and avoid contact with skin and eyes.

### Additional Information:

The information contained in this document, and all further technical advice given is based on our present knowledge and experience.

However, it implies no liability or legal responsibility on our part. No warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control.

Properties and coverage rates shown are for guidance purposes only. The user of the product must determine the product's suitability for the intended purpose. We reserve the right to make any changes according to technological progress or further developments.

Products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

The use of the product must be tested for suitability of application and purpose.

Jofa Resins Ltd try to ensure that the information it may give is accurate and is correct, it cannot control however where and how its products are used or applied or accept any liability either directly or indirectly arising from the use of its products. Whether or not in accordance with any advice, recommendation, specification, or information given by Jofa

