



## TECHNICAL DATA SHEET

# PFP-100 Flexible Polyurea Fast Primer

### Description

**PFP-100** is a fast curing, cold-applied two component pure polyurea based primer. Especially designed for applications on flexible substrates. Flexible primer. Polyurea flake system.

As an adhesion layer of flexible substrates.

### Features & Benefits

- Fast cure time.
- Reduced downtime.
- Excellent adhesion.
- Moisture tolerant.
- Chemical Resistant.
- Abrasion Resistant.
- Flexibility.
- Easy application.

### Packaging Kit

4.4kg Kit - Component A & B  
22 kg Kit - Component A & B

### Coverage

Expect a consumption of 200-400m<sup>2</sup>.

\* 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.
- On concrete or fresh mortar, you must wait at least 21 days before applying this system.
- Substrate must be completely free of water or water vapour.

\*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).

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 immediately in a thin continuous film. Work the primer into the surface using squeegee then roll to avoid pooling.

On porous surfaces **PFP-100** will be absorbed very quickly, use enough required amount primer to ensure complete surface sealing.

Reaction rate increases with the size of the mixtures; therefore it is advised not to mix more amount of product than that can be easily applied in a 15 minutes period. Otherwise, application could be difficult or the final appearance could be affected.

### Technical Information

<b>Curing Schedule 20°C</b>	Dry touch	35 minutes
<b>Shelf Life</b>	Resin & Hardener:	12 Months
<b>Pot Life</b>	Temp 20°C	60 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.	

### Chemical Resistance

See Chemical Resistance Chart.



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### Information on the final product

Hardness (Shore)	75A
Mechanical properties	Max. elongation: 540% Tensile stress: 19 MPa
Adhesion	Concrete: >5 N/mm <sup>2</sup> (EN 13892-8)
UV resistance	Polyurea Primer Flex is an aromatic product. It will turn to yellow when exposed to sunlight, without impairment of its mechanical properties.
Thermal resistance	Stable up to 80°C.

### Appearance

Light yellow 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>.

### 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.

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