BUILDING TRUST

PRODUCT DATA SHEET

Sikadur® PF

EPOXY RESIN PORE SEALING AND SMOOTHING PUTTY

DESCRIPTION

Sikadur® PF is a moisture tolerant, thixotropic, 2-component repair putty, based on a combination of epoxy resins and special selected high strength fillers.
Suitable for use in hot and tropical conditions.

USES

Sikadur® PF may only be used by experienced professionals.

- Concrete minor repairs such as honeycombing, blow holes, pin holes, etc.
- General smoothing / re-profiling over large areas
- Suitable for feather edge
- Filling pinholes and surface sealing prior to overcoating with Sikafloor®, Sikadur® and Sikagard® product range
- Filling of non structural cracks, holes and voids
- Corners and joints edges repair

FEATURES

Sikadur® PF has the following advantages:
- Easy to mix and apply
- High strength surface repair material
- Very good adhesion to most construction materials
- High strength adhesive
- Thixotropic: non-sag in vertical and overhead applications
- Non-shrink
- Different coloured components (for mixing control)
- No primer needed
- Excellent mechanical strength
- Impermeable to liquids and water vapour
- Good chemical resistance
- Suitable for dry and damp surfaces
- Cost effective; consumption of subsequent coatings is reduced
- Excellent adhesion to concrete substrates
- Good abrasion and impact resistance

PRODUCT INFORMATION

Composition	Epoxy resin and special fillers
Packaging	Part A: 4 kg container Part B: 2 kg container (A + B) 6 kg ready to mix units
Colour	Light Grey (Mixed A + B) Component A: White Component B: Black
Shelf life	24 months from date of production
Storage conditions	Store in original, unopened, sealed and undamaged packaging in dry condition at temperatures between +5 °C and +30 °C. Protect from direct sun light and moisture.
Density	~1.75 kg/l (mixed resin at +23 °C)

TECHNICAL INFORMATION

Shore D Hardness	~75 (7 days, +25 °C)	(ASTM D2240)
Compressive strength	**+25 °C** / **1 Day** ≥ 35 N/mm² / **7 Days** ≥ 45 N/mm² / **14 Days** ≥ 60 N/mm²	(ASTM C579)
Tensile adhesion strength	> 3.0 N/mm² (concrete failure)	(ASTM D4541)
Water absorption	~0.01%	(ASTM C413)

APPLICATION INFORMATION

Mixing ratio	Component A : Comp. B = 2 : 1 (by weight and volume)
Consumption	~1.80 kg / m² / mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.
Layer thickness	Maximum 3 mm in one single layer
Ambient air temperature	+5 °C min. / +45 °C max.
Dew point	Beware of condensation. Substrate temperature during application must be at least 3 °C above dew point.
Substrate temperature	+5 °C min. / +45 °C max.
Pot Life	~45 min. (+25 °C) *200 g The potlife begins when the resin and hardener are mixed. It is shorter at high temperatures and longer at low temperatures. The greater the quantity mixed, the shorter the potlife. To obtain longer workability at high temperatures, the mixed adhesive may be divided into portions. Another method is to chill components A and B before mixing them (not below +5 °C).
Curing time	Sikadur® PF can be over coated with various Sikafloor®, Sikadur® and Sikagard® resins after 12 hours and not later than 24 hours at +30 °C. Sikadur® PF is fully cured after 7-14 days, depending of ambient temperature.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- When applying to damp concrete (no standing/running water), work well into substrates.
- Do not apply on bitumen or asphalt.
- Do not mix with solvent.
- Do not add water or any other ingredients.
- Do not apply on polyethylene, polypropylene, or PTFE.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

- The substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc..
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

Mix components (A and B) together for at least 3 minutes with a mixing paddle attached to a slow speed electric drill (maximum 400 rpm) until the material becomes smooth in consistency and an even in colour of the mixture is obtained. Avoid aeration while mixing. Sikadur® PF is supplied ready for use and only has to be thoroughly stirred.

APPLICATION

Ensure that the epoxy is forced well into the repair surface. Once the repair has been completed the surface can be finished with a steel float or trowel to achieve the desired effect. For corner repairs, it may be necessary to install formwork to one side of the void for easier application.

APPLICATION METHOD / TOOLS

Sikadur® PF has easy workability and can be applied by trowel, scraper, or spatula.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be removed by mechanical means.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.