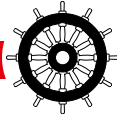


Order-No.  
**503**

# Sopro PUK 503

## PU adhesive



Light-coloured, waterproof, rapid-set, solvent-free, two-component reaction resin adhesive, meeting R2 T requirements to DIN EN 12004, for installation of ceramics and natural stone units.

- For substrates that are moisture-sensitive and subject to significant deformation
- Particularly suitable for application to metal and wood-based products
- High flexibility and adhesive strength
- For use in shipbuilding
- For indoor and outdoor use

### Use

With earthenware, stoneware and fully vitrified stoneware tiles, ceramic split tiles and split tile fittings, clinker floor tiles, glass and sintered glass mosaic, calibrated natural and cast stone units, resin-bonded tiles.

Kitchen worktops, prefabricated building interiors, metal stairs, lifts, wall and floor heating systems of sheet steel construction, in shipbuilding.

### Suitable substrates

Moisture-sensitive substrates such as wood-based and gypsum products; concrete\*, lightweight concrete\*, aerated concrete\*, cement render\*, eminently hydraulic lime render\*, renders made from masonry cement\*, plane, flush-jointed masonry\* (no composite masonry), cement screeds\*, gypsum, gypsum plasterboard and gypsum fibreboard drywall panels, gypsum planks, fibre-cement board, decorative high-pressure laminate, calcium sulphate and magnesium oxychloride (magnesite) screeds, mastic asphalt screeds, cement-bonded and resin-bonded particle-board, existing tile, terrazzo, natural and cast stone coverings, existing PVC finishes, polyester (GRP), parquet flooring, plywood, metal surfaces.

### Composition

Polyurethane, two-component

### Mixing ratio

(For partial quantities) A : B = 8 : 1 parts by weight

### Working life

Approx. 45 minutes

### Walkable/groutable

After approx. 12 hours or after curing of PU adhesive

### Loadable

After approx. 1 day; in commercial facilities after approx. 2 days, in areas subject to high wet exposure after approx. 2 days, for underwater applications after approx. 2 days, in conjunction with wall and floor heating after approx. 2 days

### Application temperature

From +10 °C to +25 °C (substrate, air, material)

### Wall and floor heating

Suitable

### Coverage

Approx. 1.5 kg/m<sup>2</sup> per mm coat thickness

### Shelf life

Approx. 12 months, subject to storage on pallet in dry conditions in original unopened containers

### Packaging

6 kg bucket (combi pack)

\* Specified substrates shall be pretreated with Sopro EPG 522 epoxy primer and blinded to excess with Sopro QS 507 fine silica sand or Sopro QS 511 coarse silica sand.

### Substrate preparation

Substrate shall be dry, clean, solid, strong, of adequate dimensional stability and free from any adhesion-impairing substances (e.g. grease, wax, rust and wood preservative). Corrosion-prone metal surfaces shall be pretreated with rust-inhibiting primer.

Particleboard/chipboard shall be laid in a staggered pattern, with glued tongued and grooved joints and additionally screwed down; it shall be rigid and dry ( $\leq 8\%$ ).

Gypsum plasterwork shall be dry ( $\leq 1\%$ ), single-coat and shall not be felt-floated or smoothed.

Fill any existing cracks in screed with structurally bonding Sopro GH 564 casting resin. Calcium sulphate screeds shall exhibit a moisture content  $\leq 0.5\%$  CM and be adequately ground, vacuum-cleaned and primed. Cement screeds shall be 28 days old and dry.

All relevant standards, guidelines and recommendations shall apply; workmanship shall comply with good practice.

Following substrates shall be pretreated with Sopro EPG 522 epoxy primer and blinded to excess with Sopro QS 507 fine silica sand or Sopro QS 511 coarse silica sand:

concrete, lightweight concrete, aerated concrete, cement render, eminently hydraulic lime render, renders made from masonry cement, plane, flush-jointed masonry (no composite masonry), cement screeds.

### Application

Two components are supplied in correct mixing proportions (5.33 kg Component A + 0.67 kg Component B).

Pierce (flat) container with hardener several times using awl or screwdriver to ensure that all hardener runs out.

Allow Component B to run into Component A and mix for min. 3 minutes to homogeneous, streak- and bubble-free consistency using mixing attachment at slow speed (7 rps). Transfer prepared mix to clean container and thoroughly restir! Do not apply material directly from original supplied container!

Sopro PUK 503 PU adhesive can be applied after transfer and restirring. Work in stages, spreading evenly over substrate to allow heat of reaction to dissipate. Apply thin coat, pressing down heavily, with finishing trowel, then apply combed bed with suitable notched trowel (tool angle  $45^\circ$ – $60^\circ$ ). Place covering materials into adhesive bed, press down, push into position and align.

### Specified times

Apply for normal temperature range of  $+23^\circ\text{C}$  and 50% relative humidity; higher temperatures shorten and lower temperatures lengthen these times.

### Tools / tool cleaning

Mixing attachment, notched trowel with suitable serration: 3–4 mm for tesserae, 4–6 mm for wall and floor tiles, 6–8 mm for heavy ceramics and profiled tiles;

clean tools with universal thinner while material is still fresh, mechanical removal required when cured

## Test certificates

### Kiwa Bautest Dresden:

– R2 T to DIN EN 12004

### BG Verkehr (institution for statutory accident insurance and prevention for transport and traffic):

– Approval for shipbuilding in Sopro System 2.3 (wall), MED approval no. 118.224, USCG approval no. 164.112/EC0736/118.224. Wet-applied quantity Sopro PUK 503: max. 2,560 g/m<sup>2</sup>.

Other components in Sopro System 2.3: fully vitrified stoneware tile (thickness 5 mm), Sopro Brilliant® water-repellent tile grout. Joints ≤ 4 mm.

– Approval for shipbuilding in Sopro System 3.4 (floor), MED approval no. 124.099, USCG approval no. 164.117/EC0736/124.099. Wet-applied quantity Sopro PUK 503: max. 2,560 g/m<sup>2</sup>.

Other components in Sopro System 3.4: fully vitrified stoneware tile (thickness 5 mm), Sopro Brilliant® water-repellent tile grout. Joints ≤ 4 mm.

Please observe technical product information for relevant system components.

## Safety precautions

All standard precautions for the handling of construction materials/chemicals shall be taken.

**Labelling** in accordance with Regulation (EC) No 1272/2008 (CLP)

### Component A

Exempt from labelling requirements.

### Component B

GHS07, GHS08

**Signal word:** Danger

**Hazard-determining components:** diphenylmethane diisocyanate, homologues, isomers.

**Hazard statements:** H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.

**Supplemental hazard information:** EUH204 Contains isocyanates. May produce an allergic reaction.

**Precautionary statements:** P201 Obtain special instructions before use. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water and soap. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.



Contains isocyanates. Manufacturer's instructions shall be observed.

**For trade applicators only!**

**German Water Hazard Class (WGK):** 1, slightly hazardous to water.

**GISCODE** (German hazardous substances classification): RU1 · Solvent-free polyurethane laying materials

## CE marking

	 Sopro Bauchemie GmbH Biebricher Straße 74 – 65203 Wiesbaden (Germany) www.sopro.com
	04 CPR-DE3/0503.1.eng EN 12 004:2007 + A1:2012 Sopro PUK 503 Improved reaction resin adhesive for tiling internal and external floors and walls
Reaction to fire	class E
Bond strength as: Initial shear adhesion strength	≥ 2.0 N/mm <sup>2</sup>
Durability for: Shear adhesion strength after water immersion	≥ 2.0 N/mm <sup>2</sup>
Shear adhesion strength after thermal shock	≥ 2.0 N/mm <sup>2</sup>
Release of dangerous substances	see SDS

Please observe the current version of the product information, the currently valid declaration of performance under the EU Construction Products Regulation, and the latest version of the relevant safety data sheet to EC Regulation No 1907/2006, also available from the internet at [www.sopro.com](http://www.sopro.com)! This document serves as a product description and sets out general details, based on empirical and test data, that take no account of specific cases of application. No liability may be construed and no claims shall be accepted in respect of these details. Should you require assistance, please contact our Technical Counselling Service.

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