

# Technical data sheet

## FRANKOSIL® 1K PLUS

1-component, solvent-free sealant for surfaces and connections

### Areas of application

FRANKOSIL® 1K PLUS is used for surfaces and extensions on roofs, balconies, loggias, porches, terraces and in building waterproofing.

### Features

- Hybrid polyurethane
- Very good adhesive properties on many substrates
- Bridges cracks up to 2 mm wide
- European technical assessment according to ETAG 005 with CE mark in the highest performance classes
- AbP (Building Supervisory Authority Test Certificate) for structural waterproofing according to DIN 18533 / DIN 18535
- AbP for waterproofing of construction joints and controlled crack joints in structures made of impermeable concrete
- Resistance to flying sparks and radiant heat according to DIN EN 13501-5: B<sub>roof</sub>(t1)
- Reaction to fire according to DIN EN 13501-1: Class E
- Can be used indoors and outdoors
- Free of hazard and safety notices
- Moisture-reactive
- Solvent-free
- Plasticiser-free
- EMI CODE EC1 PLUS & QNG Ready
- Alkali-resistant

### Properties\*

- Processing time: approx. 1.5 hours
- Rainproof after: approx. 1 hour
- Can be recoated / walked on after: approx. 12 hours
- Can take weight after: approx. 24 hours
- Can be recoated within: approx. 24 hours
- Water vapour diffusion resistance: approx.  $\mu$  864
- Application at substrate temperature of -5°C to +50°C
- Colour shade: Approx. RAL telegrey 4

\*All measurements taken at +21°C and a relative humidity of 50%. Weather conditions such as wind, humidity and temperature will change the stated values.

### Consumption

Approx. 3.20 kg/m<sup>2</sup>

### Delivery form

- 6 kg in plastic container
- 14 kg in plastic container
- FRANKOSIL® 1K PLUS ToGo

### Storage

Store in original container at +5°C to +30°C in a dry place. Avoid containers coming into contact with direct sunlight, even on the construction site.

Can be stored for 12 months after production.



Abdichtung

### Processing

#### Substrate

The substrate must be clean, dry, non-slip and load-bearing, have sufficient impermeability and strength, be free of cement slurry, formwork oils, sealants and after-treatment agents (curings) as well as dirt, oil and grease, etc. Pre-treating the substrate by granulate or shot blasting, high-pressure or ultra-high-pressure water jetting, milling or surface-removing grinding (including the respective necessary after-treatment) is usually mandatory. The airing times and the recoating ability of the individual layers must be observed.

When sealing surfaces on mineral substrates, the primer for mineral substrates must always be sanded in excess with fire-dried quartz sand with a grain size of 0.3-0.9 mm diameter. The loose excess of quartz sand must be brushed off or, better, vacuumed after the primer has hardened.

#### Application

The mixed sealant is applied with about 1/2 to 2/3 of the planned amount in an even layer thickness. In this still fresh layer, the fleece is inserted without creases and voids and rolled on with a dry nylon fur roller. The fleece cuts must overlap one another by at least 5 cm. Then the remaining amount of approx. 1/2 to 1/3 of the mixed sealant is applied to the surface. The fleece must be completely saturated and have a shiny surface. A matt surface indicates that too little material is used or that the substrate has a higher absorption capacity. Then immediately remove the adhesive tape.

#### Mixing

Stir well immediately before use.

### Tools and equipment



## Safety information

Please consult the product safety data sheet for information on personal protective equipment.

GISCODE: RSP20

## General information

Times are reduced at higher ambient and substrate temperatures and extended at lower ones. The processing tools and equipment used as well as different construction site conditions play a role when it comes to the stated coverage. This means these are variable. Unevenness resulting from the substrate cannot be levelled out using the product.

The product must not be mixed and processed with other substances not belonging to the system. No materials other than those specified by FRANKEN SYSTEMS GmbH are permitted to be used.

The current version of the DAFStb guideline "Protection and Repair of Concrete Structures" must be observed.

## Thinning

Thinning with up to max. 3% with system thinner is possible, see primer recommendations FRANKOSIL® (TL028).

Tools can be cleaned using the system cleaner, see primer recommendations FRANKOSIL® (TL028).

## Miscellaneous

It's to the best of our knowledge that we've provided the above information as well as our technical advice on applications, whether verbal, in writing or by means of tests. However, this information shall only be regarded as non-binding, which also applies to any property rights of third parties. The advice does not release you from examining our current advisory notes yourself (our safety data sheets and technical information in particular) and our products with regard to their suitability for the intended processes and purposes. The application, use and processing of our products as well as the intended use selected by you on the basis of our technical application-specific advice are beyond our control and are therefore exclusively your responsibility. The sale of our products is subject to our current General Terms and Conditions of Sale and Delivery. Warnings on the product labels must be observed. The latest version of the applicable documents shall be used.

Please check that the documents used are up-to-date and/or request an up-to-date document before each application.

## Care instructions for prevention of algae growth

1. Prevention of puddles on the roof
2. Regular annual visual inspection of the waterproofing
3. Regular roof cleaning with pressurised water and a brush