

# Technical Data Sheet

## PT Adhesive 431 CF

**- epoxy based adhesive -  
(pigmented, grey, thixotropic)**

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### Product description

PT Adhesive 431 CF is a two component, nonylphenol-free, special filled mortar adhesive based on epoxy resin. Due to the special formulation it is very smooth in application especially on vertical areas because of thixotropic formulation. VOC <500 g/l. The bonding of PT Adhesive 431 CF to PT Joint Tape 1 and 2 is excellent.

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### Application areas

PT Adhesive 431 CF is used for structural bonding of PT Joint Tape 1 and PT Joint Tape 2. Due to the special formulation and filler structure occurs an excellent bonding between adhesive and joint tape. PT Adhesive 431 CF is a part of PT Prooflex System (Adhesive + Joint Tape).

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### Product advantages

- **Two components**
- **Smooth formulation**
- **Perfect bonding with high strength**
- **Thixotropic**
- **Grey**
- **Part of Prooflex system (Adhesive + Joint Tape)**
- **High compressive strength**
- **Easy application**
- **Also suitable on humid surfaces**
- **Mixing ratio 2:1 by weight**
- **Chemical resistant**
- **Suitable on many surfaces**
- **„Made in Germany“**

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### Specification

Base	: Epoxy resin, pigment, quartz sand
Color	
Component A	: white
Component B	: dark grey
Processing temperature	: + 8°C up to + 30°C surface temperature
Density (23°C) mixed	: approx. 1.60 g/ml
Viscosity (23°C)	: thixotropic, no sagging up to 15 mm
Compressive strength (EN ISO 604)	: approx. 55 N/mm <sup>2</sup> (14 days 23°C)
Flexural strength (DIN EN ISO 178)	: 30 – 40 N/mm <sup>2</sup> (14 days / 23°C)

E-Modul (DIN EN ISO 527)	: approx. 3500 N/mm <sup>2</sup> (14 days, 23°C)
Volume shrinkage	: < 1.0%
Tensile strength on concrete	: concrete fracture
Tensile strength on steel	: > 10 N/mm <sup>2</sup> (14 days, 23°C)
Mixing ratio	: 2:1 weight parts
Processing time	: 8°C approx. 90 minutes 23°C approx. 60 minutes 30°C approx. 30 minutes
Consumption	: approx. 1.6 kg/m <sup>2</sup> per mm thickness

All technical datas are measured in our laboraty.

Please take notice about the safety information and advice given on the safety data sheets and packaging labels. GISCODE: RE1

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### Delivery form

15 kg unit  
(comp. A 10 kg + comp. B 5 kg)

Article-No. 10410015

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### Storage

12 months (frost-free and dry, +15°C up to +25°C in original packaging).

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### Application

#### Surface preparation

The surface must be mineral, dry or slight moist, stable, solid and clean. Loose components, release agents, formwork oil, grease and other adhesive reducing layers have to be removed before the use of PT Adhesive 431 CF. The concrete should be 3-7 weeks old before application. Damaged areas, cracks, cavities can be re-profiled with PT Adhesive 431 CF. Perhaps a pretreatment of the surface with sand or shotblasting is necessary. An adhesive tensile strength of 1,5 N/mm<sup>2</sup> at least is required.

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#### Material

PT Adhesive 431 CF must be mixed in the right mixing ratio homogenously. Therefor component B is completely filled in component A. With a suitable mixing device, the material should be mixed 3 minutes at least until no color streaks are visible. We recommend to put the material in a clean vessel and mix it again to guarantee a homogenous mixture. The mixing device should mix at low speed to avoid air in the mixture (max. 400 U/Min.).

#### Application in combination with PT Proofflex

The joint tape should not completely adhered with the surface if cracks or joints are bigger than 1 mm. The joint tape has to lay loose over the joint or crack. The mixed PT Adhesive 431 CF must be applied on both sides along the joint by using a spatula or notched trowel (coating thickness of the adhesion: 1-2mm). Application width on both sides min. 40 mm.

The PT Joint Tape 1 or PT Joint Tape 2 must be embedded within the pot life time of the PT Adhesive 431 CF and pressed firmly in the adhesive by using a roller. It is very important to avoid air pockets in the adhesive layer, because it may cause leaks afterwards. In case of joint movement, the PT Proofflex System is layed in loop form into the joint. If the joints are smaller than 1 mm the PT Joint 1 or PT Joint Tape 2 Joint Tape can be fully covered with PT Adhesive 431 CF.

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**Recommended tools**

Brush

Trowel

Gloves

Safety glasses

Mixing equipment

Spraying device

**Application areas:****Remarks**

The information given in this technical data sheet corresponds to the current state of development and is based on our experience, our knowledge and is non-binding. An investigation has to be done with focus on the respective building project and the area of application. The technical expert advice of proof-tec employees does not exclude the planning or control by an engineer. We are liable within the scope of our general delivery and sales conditions, we are not liable for the application of our materials. The generally accepted rules of technology must be observed. If necessary, preliminary tests have to be carried out.

Version 05/2021

All previous versions of this technical data sheet are not valid anymore and should not be used anymore.