



0749 / EN 1504-3

TECHNICAL DATASHEET

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## PC<sup>®</sup> 5187/BL

### Thixotropic epoxy mortar

#### 1. Description

The **PC<sup>®</sup> 5187/BL** is a ready for use 3-component epoxy repair mortar. The granulometry of the filler was specially chosen in order to obtain optimal characteristics.

#### 2. Applications

- Mortar which is extremely suitable for repair above the head.
- Used for repair when a high mechanical and chemical resistance is required.
- **PC<sup>®</sup> 5187/BL** epoxy mortar is used for repair of beams, ceilings, columns, ...

#### 3. Properties

- The **PC<sup>®</sup> 5187/BL** has very good mechanical characteristics.
- Ideal for processing above the head till high thicknesses.
- Wear-resistant
- Acid proof
- Watertight

#### 4. Technical data (typical values)

- A-component: black liquid
- B-component: white liquid
- C-component: filler
- Density of the cured material: 2.02 g/cm<sup>3</sup>
- Evaluation of the reactivity at 20 °C: time needed for a mixture of 800 g PC<sup>®</sup> 5187/BL A and 400 g PC<sup>®</sup> 5187/BL B to rise in temperature from 20 °C to 40 °C: 38 minutes
- Mixing ratio: 5 kg A / 2.5 kg B / 17 kg C
- Compression strength (EN 12190)
  - After 24 h at 20 °C: 66 N/mm<sup>2</sup>
  - After 7 d at 20 °C: 83 N/mm<sup>2</sup>
- Modulus of elasticity under compression (EN 13412): 12.96 GPa
- Flexural strength (EN 13892-2, after 7 d at 20 °C): 39.2 N/mm<sup>2</sup>
- Tensile strength (EN 527-2, after 7 d at 20 °C): 21.8 N/mm<sup>2</sup>
- Adhesion (EN 1542): > 2.5 N/mm<sup>2</sup> (rupture in concrete by using PC<sup>®</sup> 5800 as primer)
- Thermal compatibility/freeze-thaw cycling (EN 13687-1): Adhesion after 50 cycles is > 2 N/mm<sup>2</sup>
- Capillary absorption (EN 13057): < 0.5 kg m<sup>-2</sup>h<sup>-0.5</sup>
- Consumption : ± 2.1 kg/m<sup>2</sup> per mm layer thickness

- Curing time: at 20 °C it is allowed to walk over the **PC® 5187/BL** after 12 hours. After 24 hours cars are allowed to pass over. The time indicated decreases at higher and increases at lower temperatures.
- Application temperature: minimum 10 °C, maximum 30 °C (both ambient as substrate temperature)
- Load bearing capacity: at 20 °C after 3 days completely load bearing / at 30 °C after 2 days / at 10 °C after 7 days.
- Shelf life: 24 months after production date in the original, unopened and undamaged packaging. **PC® 5187/BL** has to be stored in a dry place between 10 °C and 30 °C.

### 5. Processing

- Mix the A-component with the B-component. Add the C-component and mix intense with a slow speed mixer during minimum 2 minutes until you get a uniform mortar.
- Apply the mortar in small quantities in the still sticky primer **PC® 5800** and press well.
- For a smooth finishing, moisten the trowel with **PC® 5900**.

### 6. Packaging

- A-component: 5 kg
- B-component: 2,5 kg
- C-component: 17 kg
- Weight of the mixture: 24,5 kg


### 7. Cleaning

Unreacted product can be removed with the cleaning agent **PC® 5900**.

### 8. Precautions and safety requirement

- Avoid contact with the skin and the eyes.
- Wear protective gloves, clothes and glasses.
- Prevent all contact of **PC® 5187/BL** with water.
- For more information: see Material Safety Data Sheet (MSDS).



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ECC N.V. Terbekehofdreef 50 – 52 B-2610 Wilrijk  09  0749 - CPD BC2-563-1895-0002-001	
EN 1504-3 <b>Structural Concrete Repair Mortar (epoxy based)</b>	
Compressive strength	Class R4
Chloride ion content	≤ 0.05 %
Adhesive bond	≥ 2,0 MPa
Restrained shrinkage/expansion	NPD
Carbonation resistance	Pass
Thermal compatibility part 1	≥ 2,0 MPa
Skid resistance	NPD
Capillary absorption	≤ 0,5kg m <sup>-2</sup> h <sup>-0,5</sup>
Dangerous substances	comply with 5.4
Reaction to fire	Euroclass F