

# eile PUR CONCRETE 3K

## Description:

A three-component polyurethane-cement-based concrete coating with high impact and abrasion resistance. This product provides excellent durability in high-temperature environments, featuring a matte and smooth surface finish. It is designed for surfaces that require medium to heavy traffic and chemical resistance.

## Areas of Use:

- Interior and exterior environments
- Industrial floors such as factories and warehouses
- Food production facilities and pharmaceutical industries
- Surfaces requiring high thermal resistance

## Product Features:

- High thermal resistance
- Dust-free
- Provides permanent water insulation on applied surfaces
- Non-slip, matte, and smooth surface appearance
- Hygienic, prevents bacterial growth
- High impact and abrasion resistance
- Resistant to industrial chemicals, detergents, oils, sugars, organic acids (for specific chemical resistance, please refer to technical documentation)
- Can be opened to traffic in a short time

## Application Procedure:

### Surface Preparation:

- The surface should be cleaned using high-pressure water; remove oil, grease, cement residues, fuel, and paraffin waste, and fully remove cured membranes.
- For old concrete surfaces, use a mosaic grinding machine to roughen the surface, filling any voids or cracks. Voids and cracks can be repaired with *eile PU CONCRETE 3K*.
- Ensure the concrete surface is at least 7 days old before application.
- The surface should not be washed with water before the application. It must be dry, and the moisture content should not exceed 9%.

## Mixing:

- *eile PU CONCRETE 3K* is a three-component system (A + B + C).
- First, add component B to component A and mix thoroughly. Then, gradually add component C and continue mixing for 3-5 minutes until a homogeneous mixture is achieved.
- The self-leveling property of the material is designed for a minimum temperature of +20°C. At lower temperatures, less of the powder component should be added to maintain its spreadability.

## Mix Ratio:

- Component A: 2.84 kg
- Component B: 3.20 kg
- Component C: 15 kg
- Pigment Paste: 0.50 kg

## Application Method:

- Pour the well-mixed material onto the surface and spread it evenly using a notched trowel until the desired thickness is achieved (an 8mm notched trowel gives a 3-4mm thickness).
- Remove any air bubbles with a spiked roller while the material is still fresh (within 1-2 minutes).
- The application must proceed continuously to avoid cold joints. Planning and manpower should be adjusted accordingly. Typically, the team should consist of at least 6 members: 2 for mixing, 3 for application, and 1 for using the spiked roller.
- The joints must be cut within 2 days according to the joints under the *eile PU CONCRETE 3K* coating.

# eile PUR COCRETE 3K

**Consumption:** 1.5 kg/m<sup>2</sup> for 1mm thickness

**Tool Cleaning:** Use *Pomex Thinner* for cleaning tools.

## Points to Consider:

- Unused mixed materials can be stored for future use.
- Do not apply to unstable substrates.

**Packaging:**  
Set: 21.54 KG

**Storage:**  
In unopened original containers, it can be stored for a minimum of 12 months in dry environments at temperatures between 5°C and 25°C. Once the container is opened, the material should be used as quickly as possible.

**Shelf Life:**  
When stored under the specified conditions and in its unopened packaging, the shelf life is 12 months from the production date.

## Technical Specifications

<b>Color</b>	Red, yellow, green, gray, beige, yellow
<b>Heat Resistance:</b>	60°C-80 °C
<b>Working time:</b>	8 - 12 Minutes
<b>Compressive Strength</b>	53 N/mm <sup>2</sup> ( DIN EN 196 )
<b>Tensile Strength:</b>	10 N/mm <sup>2</sup> ( DIN EN 196 )
<b>Flexural Strength:</b>	21 N/mm <sup>2</sup> ( DIN EN 196 )
<b>Modulus of Elasticity</b>	16.000 N/mm <sup>2</sup> ( DIN EN 13412 )
<b>Opening time to light traffic:</b>	24 hours
<b>Full Curing:</b>	48 hours
<b>Application Thickness:</b>	3-10 mm

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

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