

# byk®



## BYK 1020 CONCRETE

### Ready Dry Concrete - Screed Mortar C30

**BYK 1020 CONCRETE** Cement-based, factory-mixed ready dry concrete/screed mortar with polymer additives, fiber reinforced, C30 concrete strength.

#### FIELDS OF APPLICATION

- Correcting surface defects and eliminating level differences,
- Where smooth, polished finish is desired,
- In door and window lintels, beams and lintels,
- It is used in flooring and in many areas.

#### ADVANTAGES

- It saves time and labor,
- It prevents crack formation thanks to the additives it contains.
- Thanks to its homogeneous mixture, it provides the same and high strength at every point of application.
- Since it is a ready mix, material wastage is at minimum level.

#### TECHNICAL FEATURES

Structure of the Material	Cement Based, polymer and fiber reinforced
Color	Gray
Density	2,10 ± 0,05 kg/ lt
Compression Strength	≥35 N/mm <sup>2</sup>
Flexural Strength	≥7 N/mm <sup>2</sup>
Application Surface Temperature	+5°C / +35°C
Application Thickness	10 - 50 mm
Usage Time	1 hour
Full Time Curing	28 days

The values above are given for +23°C and 50% relative humidity. While higher temperatures shorten the period, lower temperatures extend it

#### APPLICATION PROCEDURE

##### Preparation of the Substrate

The substrate must be clean, dry, dust-free, sound, not frozen, salt/lime vomited. Cement, plaster, plaster etc. on the floor. If there are substances, the floor should be cleaned. Weak concrete pieces should be removed from the surface, small gaps and holes should be made completely open. The resulting dust should be cleaned with the help of industrial vacuum cleaner. In applications to be made on concrete and existing screed, it is important to prime the surface with a specially prepared primer with **BYK 1104 PRIMERA** to increase adhesion.

#### Priming

**BYK 1020 CONCRETE** in order to increase adherence in application, the surface should be primed with wet application method. Mixture is prepared for priming by adding 2 units of water to 1 unit of cement and 1 unit of **BYK 1104 PRIMERA**. The mixture, which is brought to a consistency that can be applied with a brush, is spread homogeneously with a consumption of 0,35 kg/m<sup>2</sup> on the moistened floor that has been cleaned 12 hours beforehand. **BYK 1020 CONCRETE** should be applied on the primer before allowing it to dry.

#### Mixing Rates

Approximately 2,50 - 2,75 liters of water should be used for 25 kg/bag **BYK 1020 CONCRETE**.



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### Application Surface

#### Smoothing, Screed Applications

**BYK 1020 CONCRETE**, should be mixed with a concrete mixer or hand mixer in the bucket for 4-5 minutes until it becomes homogeneous. It is spread and corrected with the help of a trowel or other necessary hand tools. Premature drying of the mortar should be prevented. It should dry under natural conditions. There is a risk of cracking and not reaching the desired strength conditions of the mortar, which is dried by drafting or by being forced to dry by external factors. Depending on the weather conditions, the product can be polished on the surface with the help of tray polishing after approximately 1,5-2 hours. If the outdoor conditions are very challenging for 1 week from the day the product is applied, it should be covered or wetted.

### Consumption

For 1 cm application 25 kg/m<sup>2</sup> Package 25 kg Kraft Bag

### Package

25 kg Kraft bag

### Cleaning of the Tools

After application, the tools and equipment used must be cleaned with water. **BYK 1020 CONCRETE** can only be removed from the surface mechanically after curing.

### Watch Points

In the application of **BYK 1020 CONCRETE**, if the ambient and surface temperature is below +5°C or above +35°C, appropriate temperatures should be expected. The applied fresh product should be protected from sunlight and wind so that it does not dry quickly. Do not apply in extremely hot, rainy or windy weather. The materials to be used in the application area should be brought and stored 1-2 days in advance and it should be ensured that they adapt to the ambient conditions. In applications to be made in extremely cold weather, the ambient and floor temperature should be increased with heaters, and the materials to be used should be conditioned at +20°C - +25°C and made ready for application. Working and reaction times of cement-based systems are affected by ambient and ground temperature and relative humidity in the air. The reaction slows down at low temperatures, which extends pan (pot) life and working time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly. In order for the material to complete its curing, the ambient and ground temperature must not fall below the minimum allowable temperature. If the mixing water amounts specified in the technical document are exceeded, the product will experience a loss of strength.



#### Shelf Life

12 months from date of manufacture under appropriate storage conditions. Opened packages should be consumed within 1 week by closing their mouths.

#### Storage

Store in unopened original packaging in a cool and dry place protected from frost. For short-term storage, a maximum of 2 pallets should be placed on top of each other and should be shipped with first in first out. For long-term storage, pallets should not be stacked on top of each other.

#### Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated. Work clothing, protective gloves, goggles, masks must be used during the application. In case of contact with skin and eyes, do not contact with skin and eyes. In case of contact, wash immediately with plenty of water and soap and seek medical advice immediately if swallowed. Food and beverages should not be introduced into the application areas. It should be stored out of reach of children. Please refer to the Material Safety Data Sheet for detailed information.

#### Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **BYK Binyapı Co.** is only responsible for the quality of the product. **BYK Binyapı Co.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.