

byk®



BYK 1018 LEVELSCREED

Cement Based, Self Leveling

BYK 1018 LEVELSCREED is cement based, self-levelling, applicable between 3 – 10 mm thickness, ready to use under coating levelling screed.

FIELDS OF APPLICATION

- Hospitals,
- Stores,
- School and Administration Offices,
- Hotels,
- Apartments,
- Grocery Stores,
- Shopping Malls,
- Leveling of rough and uneven surfaces and removal of the irregularities,
- In the leveling of the screeds with bad surface before bonding of ceramic, marble, natural stone, parquet, carpet and PVC coatings

ADVANTAGES

- Can be applied with pomp.
- Provides fast and easy application.
- Economic.
- Mixed only with water.

TECHNICAL FEATURES

Structure of the Material	Mineral fillers and polymer reinforced special cement
Color	Gray
Density	2,10 ± 0,05 kg/ lt
Compression Strength	28 days 15 N/mm ²
Tensile Strength	28 days >1 N/mm ²
Flexural Strength	>3 N/mm ²
Application Surface Temperature	+5°C / +35°C
Application Thickness	3 - 10 mm
Pot Life	30 minutes
Open Traffic Time	5 hours

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 concrete sub-surfaces to be applied must have a strong and sufficient compressive strength (minimum 25 N / mm²), tensile strength of at least 1,5 N / mm², maximum humidity of 4%, floor temperature minimum + 8 °C. Also, the dew point of the floor should be over + 3 °C. The bottom surface must be clean, dry and free of any foreign objects such as dirt, oil, grease, coating and surface curing materials.

Preparation of the Substrate

The concrete sub-surfaces to be applied should be prepared in such a way that it can remove the cement slurry by using abrasive equipment (Shot Blasting, milling, diamond, etc.) to obtain an open-pored surface. Weak concrete parts should be removed from the surface, small gaps, holes should be made completely open. The dust must be cleaned with the help of industrial vacuum cleaner.

Mixing

Pour the amount of water indicated on the package into a clean mixing bowl. Slowly add the BYK 1018 LEVELSCREED into the water and stir for 3 minutes until you get a homogenous mixture with the electric mixer and the appropriate mixing tip. Material should not be allowed to clump at the bottom of the bucket and these pellets should be distributed. After waiting for about 2 minutes, stir for another 1 minute to make it ready for application.

Mixing Rates

For 25 kg/1 bag of BYK 1018 LEVELSCREED approximately 5,00±0,50 lt of water should be used.



BYK 1018 LEVELSCREED

Cement Based, Self Leveling

Application

Primer

BYK 1018 LEVELSCREED should be primed to increase the adherence of the leveling screed to the floor, reduce the air bubbles to form, and to prevent the liquid from being absorbed by the floor. Surface properties should be examined in the selection of primer and time requirement should be calculated. Depending on the requirement, the selected **BYK 1104 PRIMERA** primer is mixed with water in a ratio of 1/1 and applied by brush or roller. Apply the 2nd coat on very absorbent surfaces. **BYK 1018 LEVELSCREED** application can be started after primer drying.

Coating

BYK 1018 LEVELSCREED is poured on the surface, applied with a suitable trowel or comb. When the coating reaches the appropriate consistency, apply the hedgehog roller and remove the dragged air. If the hedgehog roll application is delayed, traces of the hedgehog roller may remain on the surface.

Cleaning of the Tools

After application, the tools and equipment used must be cleaned with water. **BYK 1018 LEVELSCREED** can only be removed from the surface mechanically after curing.

Consumption

Use 1.70 kg / m² **BYK 1018 LEVELSCREED** to achieve 1 mm thickness.

Package

25 kg Kraft Bag

Watch Points

- **BYK 1018 LEVELSCREED** application, if the ambient and surface temperature is below + 5 ° C or above + 35 ° C, the appropriate temperatures should be waited.
- Do not apply in extremely hot, rainy or windy weather.
- The materials to be used in the area to be applied should be brought and stored 1-2 days in advance and provided to adapt to the environmental conditions.
- It should be ensured that the ambient and ground temperature should be increased with the heaters in the applications to be done in extremely cold weather conditions and it should be conditioned at + 20 ° C - + 25 ° C in the materials to be used and made ready for application.
- The working and reaction times of cement based systems are affected by the ambient and ground temperatures and the relative humidity in the air. At low temperatures, the reaction slows down, extending the lifetime of the pan (container) and the working time. High temperatures accelerate the reaction and the times mentioned above are shortened accordingly.
- In order for the material to cure, the ambient and floor temperatures should not fall below the minimum permissible temperature. After mixing, the material should be rested and then mixed again.
- After the application of **BYK 1018 LEVELSCREED**, it is necessary to wait at least 3 days for another coating.



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 Binyapi Co.** is only responsible for the quality of the product. **BYK Binyapi 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.