

# KingFill® S20

**Performance submerged grade cementitious ceramic tile and stone grout for joints up to 15 mm with high abrasion resistance, mould, stain and water repellency**

## DESCRIPTION

Premixed mixture of cement, re-dispersable powder polymer and dry powder fillers to produce a sanded interior, exterior and submerged tile grout, suitable for grouting all types of ceramic tiles and stone on floors and walls for joints up to 15 mm.

## APPLICATIONS

- ☒ For grouting of all types of ceramic tiles and stone.
- ☒ Can be used internally, externally and submerged.
- ☒ Suitable for bathrooms, kitchens and wet areas.
- ☒ Can be used in swimming pools and fountains.
- ☒ Non-sag, can be used for wall applications.

## ADVANTAGES

- ☒ Mould repellent.
- ☒ Water repellent.
- ☒ High abrasion resistance.
- ☒ Stain repellent.
- ☒ Ready mixed, just requires the addition of water.
- ☒ High bond strength.
- ☒ Suitable for internal, external and submerged applications such as pools and fountains.
- ☒ Available in a wide range of colours.

## STANDARDS

KingFill S20 complies with EN13888 CG2.

## METHOD OF USE

### Substrate preparation

All surfaces must be clean and free from oil, grease or loose materials. Gap to be filled should not exceed 15 mm to avoid slumping.

### Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

1.6 - 1.7 litres of clean water should be added to clean container for each 5 kg. The powder is then added slowly to the water while mixing continuously with low speed mixer/ drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until uniform consistency is obtained. Allow to stand for 5 minutes before using.

Compressive strength	4 MPa @ 1 day @ 25°C > 17 MPa @ 28 days @ 25°C
Working time:	≈ 90 min @ 20°C ≈ 30 min @ 35°C
Minimum application temperature	5°C
Fresh wet density:	1.7 g/cm <sup>3</sup>

## APPLICATION

- ☒ Apply using a spatula or a scraper.
- ☒ Remove excess material from the face of the tile using a dry cloth.
- ☒ Finish by running the tip of the gloved finger over the surface or by using a suitably curved tool.
- ☒ After drying, clean tiles with a damp sponge.
- ☒ It is recommended to remove grout from the tile surfaces before full setting of the grout. Failure to do so may result in difficulty in removing any remains.

### Notes:

- ☒ Low temperature (below 5°C) will affect the physical properties of the unset material.
- ☒ During application and for at least 12 hours from application, the product should not be exposed to any water.

## YIELD

The approximate yield of grout can be calculated as per the following equation:

$$\text{Yield (m}^2\text{/kg)} = \frac{6}{\text{WD (0.02 + 1/L+1/H)}}$$

Where;

- L: Tile length (cm)
- H: Tile width (cm)
- D: Average joint depth (mm)
- W: Average joint width (mm)

*Note: Grout yield subject to ±15% tolerance.*

## PACKAGING

KingFill S20 is available in 5 kg bags.

## TECHNICAL PROPERTIES

## CLEANING

All tools should be cleaned immediately after use with



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fresh clean water. Hardened materials should be cleaned mechanically.

## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative.

KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

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#### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

#### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.





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**KingFill**<sup>®</sup> **S20**

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