

# KingTile® RTL5

Normal grade, cementitious tile adhesive with good adhesion strength.

## DESCRIPTION

KingTile RTL5 is ready mixed normal grade cementitious tile adhesive composed of a blend of Portland cement, special polymers and well graded sand that when mixed with water produces an easily workable tile adhesive suitable for bonding all kind of ceramic tiles on common substrates.

## APPLICATIONS

- ☐ Suitable for wall and floor applications.
- ☐ Can be used in wet areas such as bathrooms and kitchens.
- ☐ Can be used in exterior applications.
- ☐ On concrete, cement based mortar, screed and plaster.
- ☐ On drywall such as gypsum boards and fiber cement boards.

## ADVANTAGES

- ☐ Good bond strength to all common substrates.
- ☐ Easy to apply, non-sag with good workability.
- ☐ Ready mixed, just requires the addition of water.
- ☐ Economical.

## LIMITATIONS

Do not use for:

- ☐ With underfloor heating systems.
- ☐ Large format or heavy tiles.
- ☐ Continuously submerged conditions.
- ☐ Thick bed application.
- ☐ Tile over tile applications.
- ☐ Cases that require a rapid utilization for the surfaces.
- ☐ On metal, rubber, PVC or wood substrates.

Note:

For highly impervious tiles such as glass mosaics or full body porcelain tiles, KingTile RTL5 should be mixed with KingTile EN5 to improve the adhesion characteristics. Refer to KingTile EN5 datasheet or consult KINGKRETE's Technical Department for more information.

## METHOD OF USE

### Substrate Preparation

All surfaces must be clean, dry and free from dust, oil, grease, paints or any loose material.

## TECHNICAL PROPERTIES, W/P = 0.26:

Colour:	White or grey
Fresh wet density:	1.75 ± 0.10 g/cm <sup>3</sup>
Open time: ISO 13007-2.4.1	20 min
Pot life:	2 hr @ 25°C
Tensile adhesion strength: ISO 13007-2, 4.4.1	> 0.5 MPa @28 days
Slip: ISO 13007-2.4.2	< 0.5 mm
VOC: ASTM 2369	< 10 g/ltr (complies with LEED)

Concrete and cement based substrates must be sufficiently cured and dimensionally stable. Allow time for shrinkage and structural strain movements.

Gypsum boards, plaster boards, anhydrite screeds, or any highly absorbent cement based substrates such as hollow blocks and foam concrete must be sufficiently dry and free from dust.

These substrates must be primed with Keybond 2000 diluted with water at a ratio of 1:2 by volume (1 part Keybond 2000 to 2 parts water).

Tiles should not be placed over expansion and contraction joints, these joints should be filled with a suitable flexible sealant from the KINGKRETE KingSeal range.

### Mixing

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

5.0 - 5.4 litres of clean fresh water for each 20 kg bag (water/powder ratio of 0.25 - 0.27 by weight) should be added to a clean container. The powder is then added slowly to the water while mixing continuously at low speed (400 - 600 rpm).

Mixing time should be continued for 3 minutes until a uniform consistency and free of lumps mixture is obtained. Allow a slake time for 2 - 3 minutes, then remix for additional 1 minute without adding any more water.

# KingTile<sup>®</sup> RTL5

## APPLICATION

Do not use for:

- ☐ Apply a thin layer of the adhesive onto the substrate using the flat edge of the trowel.
- ☐ Comb the adhesive with a suitable notched trowel horizontally to achieve a bed thickness of 2 - 5 mm.
- ☐ Place the tiles with firm pressure to ensure proper contact with the adhesive.
- ☐ It is always better to work in a manageable area that can be tilled within the open wet time of the adhesive.
- ☐ Leave the tiled surfaces for 24 hours before grouting.

Note: Do not apply at temperature below 2°C.

## CLEANING

All tools should be cleaned immediately after use with fresh clean water. Hardened materials should be cleaned mechanically.

## PACKAGING

KingTile RTL5 is available in 20 kg bags.

## YIELD

Approximately 7 m<sup>2</sup>/20 kg bag @ 2 mm thickness.

## 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.

® = Registered trademark of the KingKrete-Group in many countries.

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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.