

KingTile® EN5

Tile adhesive liquid additive and performance enhancer.

DESCRIPTION

KingTile EN5 is a single component polymeric liquid that is designed to improve physical and bonding properties of cementitious tile adhesives.

APPLICATIONS

KingTile EN5 is ideally designed for use in the following applications:

- 🔧 Bonding of thin polymer modified screeds and/or toppings to old substrates.
- 🔧 As an additive to KingTile range of tile adhesive where enhanced bonding to various substrates is required.
- 🔧 To enhance Probuild screed products performance.
- 🔧 As a primer for absorbent surfaces.
- 🔧 For bonding large tile sizes (above 30 x 30 cm), stone materials and slabs.
- 🔧 Ceramic tiles on asphalt screeds.
- 🔧 Swimming pools and wet areas.
- 🔧 To produce waterproof renders.

ADVANTAGES

- 🔧 Effectively increases the bonding/ adhesion of cementitious adhesives.
- 🔧 Excellent water proof additives which help produce water-proof renders, screed and toppings.
- 🔧 Effective plasticizer, giving improved workability and cohesion.
- 🔧 Improved mechanical and physical properties by increasing tensile, flexural and adhesive strengths.
- 🔧 Reduces shrinkage and cracking and screeding mixes.
- 🔧 Good freeze/thaw resistance.
- 🔧 Chloride free.

STANDARDS

KingTile EN5 complies with ASTM C1059-99, Type 1 & 2, when tested in accordance with test method C1042.

METHOD OF USE

Substrate Preparation

The Substrate should be sound, clean and free from contamination. Surface Laitance should be removed by mechanical means.

Gypsum substrates and anhydrite screeds must be primed with Probond GP prior to application of products mixed with KingTile EN5.

TECHNICAL PROPERTIES @ 25°C

Active solid content:	48 - 50 %	
Specific gravity:	Around 1.0	
Colour:	White	
Slant shear strength	KingTile EN5	ASTM C1059 requiremants
Type 1 (dry cure)	>9.0MPa	2.8 MPa
Type II (after immersion)	>16.0MPa	8.6 MPa

Mixing

Bonding agent:

The recommended mix to produce slurry consistency can be achieved by mixing, 1 KingTile EN5 : 1 clean water : 3 OPC cement by volume. Use a stiff brush to apply a thick coat to damp surfaces. Application of the subsequent renders, mortar, or screed should take place while the bond coat is still wet (tacky). DO NOT apply on dry bond coats. If bond coat dries, roughen the dry coat before applying a further coat.

With KingFix C10 and KingTile C100:

Dilute KingTile EN5 with mixing water by 1:1 ratio.

With KingTile C50:

Dilute KingTile EN5 with mixing water by 1:3 ratio.

With Probuild TS200 and TS350:

Dilute KingTile EN5 with mixing water by 1:2 ratio.

When high deformability is required completely substitute water with KingTile EN5.

Note: Products mixed with KingTile EN5 will have a notably reduced open time in hot climates.

CLEANING

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

PACKAGING

KingTile EN5 is available in 5, 25 and 200 litres drums.

KingTile[®] EN5

APPLICATION

Apply the mix on the substrate with a medium sized notched trowel. Choose the trowel that provides a contact area between the tile adhesive and at least 65 - 70% to the back of the tiles subject to high foot traffic and 100% contact for outdoor areas and heavy traffic situations.

Best adhesion will be obtained by applying a thin coat of the mix onto the substrate using a flat side trowel then applying the desired thickness of the mix using the appropriate trowel in relation to type and size of tiles.

For example:

Type of Tile	Notch Size
Mosaics or 5 x 5 cm tiles	3 - 4 mm
Up to 12 x 12 tiles	5 mm
Up to 20 x 20 tiles	6 mm
Over 20 x 20	according to tile back

Grout works using the Cemafill and Profix range can start 4 - 8 hours for wall and 24 - 36 hours for floors.

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 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.