

Keratrade

Keratile S1

White/Grey

premium tile adhesive
C2SITE

High performance, deformable, cementitious adhesive with no vertical slip and extended open time. Easy to apply by trowel with high back-buttering capacities for ceramic, porcelain and stone tiles

Internal / External Domestic / Commercial
Large format tiles.
Superior anti-slip/slump and flexible.
Substrates concrete, render, screed, fibre cement, plasterboard.
Low VOC <1g/L

PREPARATION

All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising. It is good practice to dampen highly absorbent concrete substrates or apply a coat of Keratrade or Kerakoll porous primer. Most non-porous surfaces may be primed with Keratrade or Kerakoll Non-porous Primer

MIXING

20kg powder mixes into 5.5 to 6 litres of water

1. Add water to bucket
2. Mix powder into water with mechanical stirring
3. Do not mix by hand. Use a low speed mixer (300rpm). Use a drill with suitable mixing paddle designed for the task.
4. Mix until smooth
5. Allow to stand for 2 minutes before briefly remixing
6. Apply to the prepared substrate using a notched trowel. Note:

Consistency may appear thicker than standard adhesives but will still be smooth and easy to trowel. When mixed correctly mixed product will stick and hold form on the trowel without dropping off. If not, mix more powder to produce a stiffer mix

APPLICATION

To guarantee maximum adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the coating material. Check samples to make sure the adhesive has been transferred to the back of the material. Use a 6mm notch for tiles up to 150x150mm, a 10mm notch for up to 250x250mm and a 12mm notch for 300x300mm tiles. Tiles 400x400mm and larger should be back-buttered in addition to using a 12mm notched trowel. Press tiles firmly into adhesive before it skins. Apply only up to 1m² at a time to avoid skinning. If skinned, re-spread to expose "wet" adhesive. Check that enough of the substrate and tile back are in contact with adhesive (usually at least 80% but higher for large format tiles)

Discard any material that has hardened before use
Allow adhesive to harden adequately before grouting

The open time for Keratile S1 is at least 60 minutes under normal temperature and humidity conditions. When environmental conditions are not ideal (direct sunlight, dry wind, high temperatures), or if the substrate is particularly absorbent, open time may be reduced to only a few minutes. Therefore, check constantly the adhesive to make sure a layer of dry skin does not form on its surface, and that it is still fresh. If a layer of dry skin forms, run the notched trowel over the adhesive again to re-activate open time, or, if the adhesive has already start to set, remove it and spread a new layer of fresh adhesive.

TDS

TECHNICAL DATA SHEET

Uses:	Internal / External
Open Time:	60 minutes
Adjustment Time:	<30 minutes
Before Grouting:	Walls - 24 Hrs Floors - 24 hrs
Light foot traffic:	24 Hours
Water:	5.5 - 6.0 L <small>per 20kg bag</small>
Coverage:	6-7m ² @ 10mm <small>per 20kg bag Notched Trowel</small>
Clean Up:	Water
Application Temp:	5-40°C
VOC Rating:	<1g/L (US RULE 1168)

AS ISO 13007 CLASSIFICATION

C2 - Improved cementitious adhesive
S1 - Deformable (flexible)
E - Extended open time
T - Slip-resistant

Do not wet the surface of the adhesive if a layer of skin forms: water does not dissolve the skin and impedes a good bond. Final adjustment of the tiles must be carried out within 30 minutes of application.

PRE-TREATMENT OF SPECIAL SUBSTRATES

Gypsum-based plasters/renders and anhydrite screeds:
Keratrade or Kerakoll porous primer
Please see the technical data sheet on how to use the Primer properly.

MATERIALS AND SPECIAL SUBSTRATES

Marble and natural stone
Materials that are subject to deformation or staining due to water absorption require a quick-setting or reactive adhesive.

For this reason it is essential to carry out a test on a sample of the material. In the absence of specific indications from the manufacturer, natural stone with reinforcement layers, in the form of resin coating, polymer mesh, matting, etc. or treatments (for example damp courses, etc.) applied on the laying surface must be tested in advance to ensure they are compatible with the adhesive. Check for the presence of any really consistent traces of rock dust created during cutting, and remove them if found.

GUARANTEE

BuildGreen guarantees that Keratrade Products are free from manufacturing defects and will meet any applicable specifications published by us for a period of 10 years from the date of purchase. Refer to the BuildGreen Guarantee.

DISCLAIMER

The technical details and recommendations are provided based on the best knowledge at the time. It is the user's responsibility to ensure the correct use and handling of the products in line with applicable Australian Standards. Users should verify that the product is appropriate for their specific applications and meets system specifications. We reserve the right to change information without prior notice as part of ongoing research and development.

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Waterproofing products

Adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top.
Suitable for use over **Keratrade** and **Kerakoll** membranes

Important Usage Notes:

- Do not use adhesive with a crusted surface or attempt to re-mix dried or skinned adhesive—discard immediately.
- Only mix adhesive with clean water. Do not add cement or other materials.
- Recommended application temperature: 5°C to 35°C.
- Slightly adjust water quantities based on substrate and weather conditions.
- Use prepared adhesive within 2 hours of mixing.
- Allow approximately 24 hours for the adhesive to dry before grouting.
- Follow Australian standards for tile joints; seamless tiling is not permitted.

Packaging & Storage

- Packaging: 20kg bag.
- Storage: Store in a dry, cool place.
- Shelf Life: 12 months in unopened packaging under recommended storage conditions.

Safety Precautions

- Wear appropriate PPE (gloves, masks, goggles) during mixing and application.
- Ensure adequate ventilation during use.
- Refer to the Safety Data Sheet (SDS) for detailed health and safety information.

TDS

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Floors - 24 hrs
Light foot traffic: 24 Hours
Water: 5.5 - 6.0 L
per 13.5kg bag
Coverage: 6-7m² @ 10mm
per 13.5kg bag Notched Trowel
Clean Up: Water
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Technical Specifications

Property	Value
Drying Time (open time)	60 minutes
Working Time	30 minutes
Tensile Bond Strength (28 days)	> 1.0 N/mm ²
After Water Immersion	> 1.0 N/mm ²
After Heat Aging	After Heat Aging
After Freeze-Thaw Cycles	> 1.0 N/mm ²
Lateral Deformation	≥ 2.5 mm

Item Code: KTS1GREY-20KG
Item Code: KTS1WHITE-20KG

KeraTrade - A GreenBuilding Company
88 Sutton Street, Nth Melbourne VIC 3051

CALL: 1300 NO HARM (1300-66-4276)

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keratrade.com.au

Store the product securely, and check with your local council regarding the disposal of contents. Dispose of packaging thoughtfully and recycle where possible. Keep out of reach of children. If you feel unwell, consult a doctor.
For more information, refer to the Safety Data Sheet (SDS) available at www.buildgreen.au.

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