

# Keratrade KeraScreed BINDER

mineral binder  
for screeds

ADVANCED  
FORMULA

Certified, eco-friendly, hydraulic, normal setting and rapid-drying mineral binder for high performance screeds and heat-radiant slabs.



## TDS TECHNICAL DATA SHEET

Uses:	Internal / External
Bonded screeds	10 - 100 mm
Floating screeds	40 - 120 mm
Coverage:	2 – 2.5 kg/m <sup>2</sup> per cm of thickness
Hardness: after 28 days	>25 Mpa - 40Mpa based on mixing ratio (ISO 13007-4)
Pot Life:	3 hrs
Foot traffic:	8 hrs
<b>WAITING TIME BEFORE LAYING</b>	
Ceramic tiles	12 hrs
Resilient materials	24 hrs
Waterproofing	24 hrs
Hardwood floors	5 days
Bag Size:	15 KG

KeraScreed BINDER is a certified, eco-friendly, hydraulic mineral binder with normal setting and rapid-drying properties. Ideal for creating high-performance screeds and heat-radiant slabs, it ensures dimensional stability, moisture resistance, and fast readiness for flooring installation:

**Ceramic tiles:** Lay after 12 hours.

**Waterproofing & resilient flooring:** Lay after 24 hours.

**Hardwood floors:** Lay after 5 days.

**Compliance with AS 1884:2021 Resilient Flooring Standard and AS 3958:2023 Ceramic & Stone Tiling under a controlled mixing environment**

### FEATURES

- Suitable for internal and external applications.
- Low water-to-cement ratio with enhanced mechanical properties compared to Portland cement.
- High dimensional stability and prolonged durability.
- Extended workability for manual or mechanical applications.
- Compatible with a wide range of flooring types, including ceramics, natural stone, hardwood, and resilient materials.

### APPLICATIONS

- **Bonded Screeds:** Thickness ≥ 10 mm.
- **Floating Screeds:** Thickness ≥ 40 mm, using appropriate inert materials.
- **Substrates:** Suitable for prefabricated or fresh concrete, cement-based screeds, insulation panels, and lightened concrete.
- **Floor Coverings:** Homogeneous tiles, ceramic and porcelain tiles, natural stone, hardwood floors, rubber, PVC, linoleum, carpeting, and more.
- **Special Conditions:** Ideal for underfloor heating systems, areas subject to freezing, and thermal shock conditions. Do not use on deformable substrates without adequate reinforcement or fractionizing joints.

### Preparation

1. Substrate Requirements:
  - Stable, dry, and free from cracks, dust, and loose materials.
  - Separate screed from vertical elements with an 8–10 mm flexible band.
  - Apply structural joints from substrate to screed layer.
2. Reinforcement for Thin Screeds:
  - Use a 50x50 mm electro-welded mesh for screeds <40 mm.
  - Ensure mesh is anchored and embedded within the screed.
3. Floating Screeds:
  - Place a vapor barrier (e.g., polyethylene or PVC sheets) over the substrate, overlapping by 20 cm and sealing edges with adhesive tape.

### MIXING INSTRUCTIONS

- **MIXING RATIO:**  
Combine KeraScreed BINDER with water and inert materials (0–8 mm grain size) to achieve a semi-dry consistency.
- For ceramic/natural stone: 200 kg of KeraScreed BINDER per m<sup>3</sup> of inert material.
- For resilient & hardwood: 250 kg of KeraScreed BINDER per m<sup>3</sup> of inert material.
- Gradually add water to ensure consistent texture and avoid excess moisture.

**Note:** Adjust grain size (maximum 1/3 of screed thickness) for screeds outside the standard 25–80 mm range.

### BONDED SCREEDS

A slurry key can be prepared with 2.5 parts of KeraScreed BINDER, 1 part of eco-friendly, water based Keraplast Eco P6 and 1 part water.

### Technical Specifications

PROPERTY	VALUE
Binder type	Hydraulic, normal-setting
Drying time (ceramic tiles)	12 hours
Drying time (resilient & waterproofing)	24 hours
Drying time (hardwood floors)	5 days
Compatible adhesives	Mineral, organic-mineral, reactive

For detailed recommendations or non-standard applications, refer to the technical manual or consult with our support team.

Application KeraScreed BINDER can be applied in a practical and safe manner, following the traditional phases required to produce cement-based screeds: i.e. preparation of level belts, casting and compacting the paste, levelling and final smoothing with a float or by mechanical means. The compacting phase is particularly important to ensure the highest levels of mechanical performance. The finishing of the screed, carried out by moistening it with water and using a rotating steel disk, can result in the creation of a surface crust which is not very absorbent and will extend the drying time of the screed and worsen the performance of the adhesive.

Cleaning Residual traces of KeraScreed BINDER can be removed from machinery and tools using water before the product hardens.

Item Code: KERABIND-15KG

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

**keratrade.com.au**

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

ISSUE 2: 01122024

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](http://www.buildgreen.au)

#### **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.

# Keratrade KeraScreed BINDER

**SPECIAL NOTES OTHER DOSAGES:** to obtain higher degrees of mechanical resistance it is possible to prepare screeds with proportions of binder greater than those indicated. In these cases, greater attention has to be paid to the mix design of the mortar to be prepared, carefully selecting the granulometric curve of the inert material and the water/KeraScreed BINDER ratio.

**Joints:** Ensure that the screed does not directly contact the walls or other vertical elements of the room. A compressible tape or expansion joint material should be placed along the entire perimeter of the area to allow for the expansion and movement of the screed. This is important to prevent any stresses that could cause cracking along the edges.

Creating fractionising surface joints, cutting the screed while still wet up to a depth that is about 1/3 of the thickness and paying attention not to damage the reinforcement grid, if present. Their location and space distance must be determined at the design stage. They are typically carried out: - in the case of sudden change in the size of flooring, - near doors, - in the presence of elements with loss of continuity, - for the fractionising of large continuous surfaces: external screeds 50 m<sup>2</sup> with 8 m maximum individual size, in case of internal screeds (40 m<sup>2</sup> in case of underfloor heating systems). Structural joints located in the substrate must be respected. Measurement of humidity: residual humidity can be measured correctly only with a calcium carbide hygrometer. Normal electric moisture meters are not recommended as they will provide unstable and incorrect values owing to the special hydraulic binders used. Underfloor heating systems: initial start-up at least 5 days after laying the screed at a supply temperature of between +20 °C and +25 °C, maintain this for at least 3 days then set the maximum project temperature and maintain it for at least another 4 days.

## Technical Data Compliant with Keratrade Quality Standard

Parameter	Details
Appearance	Mixture of binders
Apparent Volumetric Mass	0.96 kg/dm <sup>3</sup>
Shelf Life	12 months (sealed packaging)
Packaging	15 kg bags

**MIXING WATER** Refer to mixing table for exact ratios  
**DOSAGES**

**For Ceramic Tiles** 200 kg/m<sup>3</sup> with 0–8 mm sand (EN 13139, DIN 1045-2:A/B)

**For Resilient & Hardwood Floors** 250 kg/m<sup>3</sup> with 0–8 mm sand (EN 13139, DIN 1045-2:A/B)

**Pot Life** ≥ 3 hours

Temperature Range for Application +5°C to +35°C

Foot Traffic 8 hours Waiting Times

## BEFORE LAYING

Ceramic Tiles ≈ 12 hours

Resilient Materials and waterproofing ≈ 24 hours

Hardwood Floors ≈ 5 days

Coverage ≈ 2–2.5 kg/m<sup>2</sup> per cm of thickness

## NOTES

- Values were measured under conditions of 20°C and 65% relative humidity with no ventilation.
- Actual performance may vary depending on site-specific conditions, including temperature, ventilation, and substrate absorbency.

## PERFORMANCE

PARAMETER	DETAILS
VOC Indoor Air Quality (IAQ)	Volatile Organic Compound Emissions
Compressive Strength (Binder)	55 N/mm <sup>2</sup> (EN 196/1)
Performance (Screed) after 28 Days	Dosage: 200 kg/m <sup>3</sup> -
Compressive Strength after 28 Days	≥ 25 N/mm <sup>2</sup> (EN 13892-2)- Flexural
Performance (Screed) after 28 Days	Dosage: 250 kg/m <sup>3</sup> -
Compressive Strength after 28 Days	≥ 40 N/mm <sup>2</sup> (EN 13892-2)- Flexural
Strength	≥ 6.5 N/mm <sup>2</sup> (EN 13892-2)
Residual Moisture (Thickness 5 cm)	After 24 hours ≤ 3% After 5 days ≤ 2%

## NOTES

- Values were measured under conditions of 20°C, 65% relative humidity, and no ventilation.
- Performance may vary depending on specific site conditions (temperature, ventilation, etc.).

## WARNINGS AND PRECAUTIONS

- Professional Use: This product is intended for use by professionals only.
- Compliance: Adhere to all applicable standards and national regulations.
- Dosage: Use only in the recommended proportions.
- Additives: Do not add other binders, additives, or water during the setting phase.
- Environmental Conditions:  
Low temperatures and high humidity will extend drying times.  
Protect from direct sunlight and air currents during the first 24 hours.

## MIXING:

- Avoid excessive water or non-assorted inert materials with improper granulometric grading.
- Use materials with recommended grading to maintain mechanical strength and proper drying times.
- Moisture Control: Before laying hardwood or resilient materials, check residual moisture using a calcium carbide hygrometer.
- Safety Data Sheet: Request and review the Safety Data Sheet (SDS) if needed.

By following these precautions, you ensure optimal performance and safety when working with KeraScreed BINDER.

DOSAGE	BINDER	INERT MATERIALS	WATER
200kg/m <sup>3</sup>	≈15kg (1 Bag)	≈120kg*	max 9.6 L**
250kg/m <sup>3</sup>	≈15kg (1 Bag)	≈90kg*	max 8.4 L**

\* Value calculated considering an average of 1600kg m<sup>3</sup>

\*\* Important: maximum value calculated with dry material  
Local standards might request different proportions

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