

Keratrade

KeraScreed Structural

pre mixed
engineered screed



Uses:	Internal / External
Thickness:	10 - 100mm
Water:	1.2 - 1.4 Litres
Foot Traffic:	2-3 Hours
Hardness:	30 Mpa (ISO 13007.4) <small>after 28 days</small>
Overlay:	Ceramic tiles 12 hrs Resilient materials 24 hrs Waterproofing 24 hrs Hardwood floors 5 days
Work time:	20-30min
Coverage:	5m² @ 3mm <small>per 20Kg bag</small>
Clean Up:	Water
App Temp:	5-30°C
VOC Rating:	<1g/L (US RULE 1168)
Bag Size:	20 KG

KeraScreed Structural is a high-performance, eco-friendly, ready-to-use mineral screed. It features normal setting and rapid-drying properties, making it ideal for use with adhesives. This product is perfect for underfloor heating systems due to its superior thermal conductivity, which ensures fast and even heat distribution, enhancing both system efficiency and comfort.

FEATURES:

- **Compliance with AS 1884:2021 Resilient Flooring Standard and AS 3958:2023 Ceramic & Stone Tiling**
- **Ready-to-Use:** KeraScreed Structural comes pre-mixed, ensuring consistent performance every time. No additional preparation is required.
- **Ideal for Renovation Projects:** Its high dimensional stability and exceptional durability make it perfect for renovation work, providing reliable and long-lasting results.
- **High Mechanical Resistance:** With excellent resistance to wear and tear, KeraScreed - Structural is well-suited for areas with heavy traffic, such as commercial and industrial spaces.
- **Thermal Conductivity:** Essential for underfloor heating systems, KeraScreed - Structural helps quickly achieve optimal system performance and distributes heat evenly across the surface.
- **Compatibility with Various Materials:** It is compatible with a wide range of covering materials, including ceramic tiles, porcelain tiles, natural stone, hardwood floors, and resilient materials, when using suitable adhesives.
- **External and Internal Use:** Suitable for both internal and external applications in domestic, commercial, and industrial environments, even in areas subject to thermal shock and freezing.

Areas of Application:

KeraScreed - Structural is designed as a normal-setting, rapid-drying screed that can be used for both bonded (minimum thickness of 10mm) and floating (minimum thickness of 40 mm) screeds, with a maximum thickness of 100 mm. It is compatible with a wide range of adhesives, including:

- Gel adhesives, mineral adhesives with SAS technology, single- and two-component organic adhesives (epoxy, polyurethane), and cement-based adhesives. It is suitable for the following covering materials:
- Homogeneous tiles, ceramic, porcelain tiles, klinker, cotto, glass and ceramic mosaics, marble, natural stone, and recomposed materials.
- Wood and Resilient Flooring: Hardwood, rubber, PVC, linoleum, and carpeting.
- Substrates: Prefabricated concrete, fresh concrete castings, cement-based screeds, lightened concrete, thermal and sound-insulating panels, as well as underfloor heating systems.

SUBSTRATE PREPARATION:

For optimal performance, substrates must be stable, dry, clean, and free from dust, loose material, cracks, or rising damp. It is essential that the substrate is strong enough to support the screed and ensure good adhesion.

• Non-Absorbent Surfaces:

For surfaces that are non-porous, such as plastic or metal, Keratrade or Kerakoll non-porous primer must be used to ensure proper adhesion between the screed and the substrate.

• Bonded Screeds:

A slurry mix of Keraplast should be prepared by mixing Keraplast, KeraScreed, and water in equal proportions. For example, use 1 liter of Keraplast, 1 liter of water, and 1 kg of KeraScreed. This slurry should then be applied wet-on-wet onto the substrate as a bonding layer before the screed is applied. Due to the fast-drying nature of KeraScreed, it is important to apply the screed promptly after the slurry coat to maintain strong adhesion. If unsure, it is recommended to perform a test area first. Do not apply at temperatures below 5°C to ensure proper setting and adhesion.

• **Unbonded Screeds:** For unbonded screeds, no slurry coat is required. You can directly lay the screed onto the substrate after ensuring that it is prepared properly. This preparation ensures maximum adhesion and performance, preventing issues such as poor bonding or uneven drying

APPLICATION INSTRUCTIONS:

- 1. Mixing:** KeraScreed - Structural should be mixed with clean water using standard construction equipment (e.g., concrete mixer, cement mixer trucks). The recommended mixing ratio is followed to achieve a semi-dry, compact consistency.
- 2. Application:** Apply using traditional screed methods: prepare leveling layers, cast and compact the mix, then flatten with a float or mechanical tools. Compacting immediately after laying is crucial for maximum mechanical strength.
- 3. Layering:** For thick applications, it's essential to apply in successive layers to achieve the required thickness, ensuring proper compaction after each layer.
- 4. Surface Treatment:** To avoid creating a surface crust that could extend drying times, it is important to dampen the surface with water. In areas with tubing or thinner screed layers (min. 2 cm), insert a galvanized metal reinforcement grid.
- 5. Joints:** Perimeter joints should be created using compressible tape, and fractionizing joints should be cut into the screed while it is still wet to a depth of approximately 1/3 of the screed thickness.

Item Code: **KeraScreedStruct-20KG**

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