



KERACEM[®]ECO

HIGH-PERFORMANCE MINERAL
BINDER FOR SCREEDS FOR ALL
TYPES OF FLOORS



Together with nature we
can build the future.

KERA KOLL
The GreenBuilding Company



From the Kerakoll laboratories the certified, mineral hydraulic binder for each type of flooring.



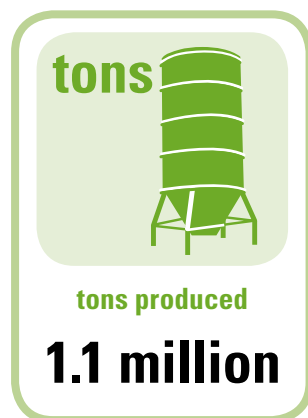
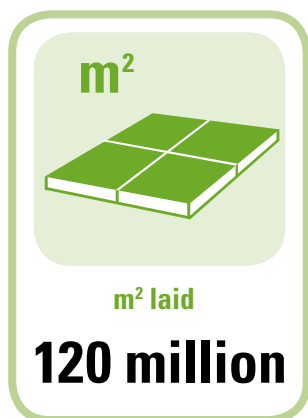
The 9 research laboratories within the futuristic **GreenLab Kerakoll** represent the world's most advanced technology centre for the study and development of new materials for green building sector.



Kerakoll has been a leader in the substrates sector for 50 years thanks to the continuous technological evolution of its products: they provide the best eco-friendly solutions and are able to meet all your flooring needs.

Keracem[®] Eco is the latest-generation high-performance screed that guarantees the quick and safe laying of ceramic tiles after 24 hours and of hardwood floors after only 5 days without having to wait for longer curing times.

The Keracem[®] Eco figures since 2005



KERACEM[®]ECO

High-performance mineral binder for screeds for all types of floors



Keracem[®] Eco is eco-friendly

- Special mineral hydraulic binder GEV certified in the EC1 R Plus class (very low emissions of volatile organic compound)
- Can be recycled as mineral inert material, avoiding waste disposal costs and environmental impact
- The 25 kg bag reduces the impact of waste on-site



Keracem[®] Eco is multi-purpose

- Ideal for any flooring, because its use allows quick preparation of high-performance screeds
- Compatible with any type of finished flooring
- Ideal for preparing screeds on radiant heating and cooling systems



Keracem[®] Eco guarantees high performance

- Greater mechanical performance thanks to an optimized water/cement ratio
- Compensation of hygrometric shrinkage which reduces the formation of surface cracks
- Greater thermal conductivity thanks to the greater ease of compacting
- Quick drying times:
 - ≈ 24 hrs for the laying of ceramic tiles*
 - ≈ 5 days for the laying of hardwood floors*

* Values taken on a thickness of 5 cm at a temperature of +20 °C, 65% R.H.. and no ventilation. The following may vary according to specific conditions at the building site: temperature, ventilation and absorbercy level of the substrate, type and the grain size of inert material binder dosage.



Keracem[®] Eco is easy and fast on-site

- Improved workability of the mixture which translates into less effort on the part of the workers
- Extended workability times (≥ 3 h) allow a more efficient organization of the building site
- Very quickly safe to walk on thanks to the rapid increase in mechanical performance
- Less binder consumption thanks to the use of selected high-performance cements

Technical Data compliant with Kerakoll Quality Standard

Appearance	Mixture of binders	
Apparent volumetric mass	≈ 0,96 kg/dm ³	UEAtc/CSTB 2435
Shelf life	≈ 12 months in the original packaging in dry environment	
Pack	25 kg bags	
Mixing water	up to ≈ 16 ℓ / 1 x 25 kg bag	
Pot life	≥ 3 hrs	
Temperature range for application	from +5 °C to +35 °C	
Foot traffic	≈ 8 hrs	
Waiting time before laying (thickness 5 cm):		
- ceramic tiles	≈ 24 hrs – U.R. < 3 % CM	
- hardwood floors	≈ 5 days - U.R. < 2 % CM	

Values taken at +20 °C, 65% R.H. and no ventilation.

Data may vary depending on specific conditions at the building site, i.e. temperature, ventilation and absorbency level of the substrate.

Performance

VOC INDOOR AIR QUALITY (IAQ) - VOLATILE ORGANIC COMPOUND EMISSIONS

Conformity	EC 1-R plus GEV-Emicode		GEV Certified 4816/11.01.02
HIGH-TECH			
Compressive strength (binder) after 28 days	≥ 55 N/mm ²		EN 196/1
Screed performance (DIN 1045-2 B/C sand):			
	1:8 / 200 kg/m ³	1:6 / 250 kg/m ³	1:5 / 300 kg/m ³
- compressive strength after 28 days	≥ 22 N/mm ² (C20)	≥ 34 N/mm ² (C30)	≥ 40,5 N/mm ² (C40)
- flexural strength after 28 days	≥ 5 N/mm ² (F5)	≥ 6 N/mm ² (F6)	≥ 6,5 N/mm ² (F6)
Resistenza EN 13892-2	C20–F5	C30–F6	C40–F6
Screed performance (DIN 1045-2 A/B sand):			
	1:8 / 200 kg/m ³	1:6 / 250 kg/m ³	1:5 / 300 kg/m ³
- compressive strength after 28 days	≥ 32 N/mm ² (C30)	≥ 45 N/mm ² (C40)	≥ 55 N/mm ² (C50)
- flexural strength after 28 days	≥ 6,5 N/mm ² (F6)	≥ 8 N/mm ² (F7)	≥ 9 N/mm ² (F7)
Resistenza EN 13892-2	C30–F6	C40–F7	C50–F7
Coverage per cm of thickness	≈ 2 kg/m ²	≈ 2,5 kg/m ²	≈ 3 kg/m ²

Values taken at +20 °C, 65% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Examples of mixing ratios

Dosage	Keracem® Eco	Inert materials	Water
200 kg/m ³	≈ 25 kg (1 bag)	≈ 200 kg (≈ 125 dm ³) *	max. 16 ℓ **
250 kg/m ³	≈ 25 kg (1 bag)	≈ 160 kg (≈ 100 dm ³) *	max. 14 ℓ **
300 kg/m ³	≈ 25 kg (1 bag)	≈ 135 kg (≈ 85 dm ³) *	max. 12 ℓ **

(*) Value calculated considering an average density of 1600 kg/m³.

(**) Important: maximum value calculated with dry inert material. Local standards might request different proportions.

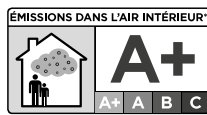
KERACEM[®]ECO

Keracem[®] Eco is a certified, eco-friendly, hydraulic, normal-setting and rapid-drying mineral binder for high-performance screeds and heat-radiant slabs, ideal for use in GreenBuilding. With very low volatile organic compound emissions. Recyclable as an inert material at the end of its life.

Keracem[®] Eco, mixed with inert materials of assorted grain size from 0 to 8 mm, creates screeds of high dimensional stability and constant moisture stability, guaranteeing the rapid, safe laying of ceramic tiles after 24 hours and hardwood floors after just 5 days.

IDEAL AS A SUBSTRATE FOR:

- ✓ CERAMIC TILES AND GLASS MOSAICS
- ✓ PORCELAIN TILES
- ✓ NATURAL STONE AND MARBLE
- ✓ SOLID WOOD AND PRE-FINISHED HARDWOOD FLOORS
- ✓ RESILIENT MATERIALS, PVC AND CARPET FLOORING



* émission dans l'air intérieur Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).



**High-performance mineral binder for screeds
for all types of floors**

KERAKOLL UK Ltd.

Unit 4, The Croft, Buntsford Gate Business Park - Bromsgrove, Worcestershire B60 4JE, United Kingdom

Tel. +44 01527 578000 – Fax +44 01527 578170

info@kerakoll.co.uk www.kerakoll.com