Code: P1284 2025/10 EN

H40 Advanced

Multipurpose Gel-Adhesive, structural, highly flexible, thixo & fluid, with accelerated adhesion. For all types and sizes of porcelain tiles, ceramic tiles and natural stones.

GEL TECHNOLOGY

1. Long workability with accelerated adhesion
2. High adhesion and deformability
3. Doesn't cause irritation
4. No environmental hazard rating

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Areas of application

→ Intended use:
Substrates:
- existing tiles
- waterproofing products
- heating systems
- cement-based screeds
- concrete substrates
- plasterboard
- fibro-cement slabs
- gypsum and anhydrite(1)
- brick
- lime and cement-based plasters/renders
- thermal insulation panelling systems
- insulating panels
- impact noise insulation sheets
- timber(1)
- metal(1)
- PVC(1)

(1) After application of Active Prime Fix or Active Prime Grip.

Materials:
- porcelain tiles
- laminated stoneware
- low thickness slabs
- ceramic tiles
- large size
- large format tiles (up to 160x320 cm)
- marble - natural stone
- recomposed materials
- glass mosaics
- glass tiles
- thermal and acoustic insulation
- terracotta - klinker

Uses:
- adhesive and finishing
- floors and walls
- for internal use - external
- overlaying
- terraces and balconies
- facades
- swimming pools and fountains
- saunas and spa
- domestic
- commercial
- industrial
- street furniture

Instructions for use

→ Preparation of the substrate
All substrates must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising. It is best to dampen highly absorbent cement-based substrates before the application or apply one coat of Active Prime Fix or Active Prime Grip.

→ Adhesive preparation
Mixing water (EN 12004-2)
Grey ≈ 21.5% – 24.5% weight
White ≈ 27,5% – 30,5% by weight
Mixing water on-site
For low thickness laying and full wettability:
Grey ≈ 6,1 l / 1 bag 20 kg
White ≈ 7,6 l / 1 bag
on walls, for high and low thickness laying:
Grey ≈ 5.4 l/1 bag
White ≈ 6,9 l / 1 bag 20 kg
The amount of water indicated on the packaging is indicative. It is possible to obtain mixtures with consistency of variable thixotropy according to the application to be made.

→ Application
To guarantee structural adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the material. Large, rectangular sizes with sides > 60 cm and low thickness sheets may require adhesive to be applied directly to the back of the material.
Check samples to make sure the adhesive has been transferred to the back of the material.
Respect all structural, fractionizing and perimeter joints present in the substrates.
Abide by local existing provisions when creating elastic expansion joints.

Special notes

→ Materials and special substrates
Marble–natural stones and Recomposed materials: marble and natural stone in general may have characteristics that vary even with reference to materials of the same chemical and physical nature. For this reason it is essential you consult Kerakoll Global Service to request specific indications or to carry out a test on a sample of the material.
In the absence of specific indications from the manufacturer, natural stone slabs 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.
Waterproofing products: adherent and floating polymer sheets, liquid bitumen and tar-based sheets or membranes require application of a laying screed on top. In the case of reactive waterproofing products (such as RM waterproofing according to EN 14891) it is necessary to use a reactive adhesive.

→ Special applications
Facades: the substrate should guarantee a cohesive tensile strength of ≥ 1.0 N/mm².
The need to call for suitable mechanical safety anchoring must be evaluated by the designer for coverings with > 30 cm side.
For coverings with > 60 cm, add to the mixing water a percentage of Top Latex Eco to assess the function of the thermo-dynamic strain provided by the structure.
Always apply a layer of adhesive directly on the back of the material (per India tile/stone).

Certificates and marks

CE EN 12004 · C2F TE S1 EN 12004 · GT-2 TESTED · GEV-EMICODE EC 1 PLUS very low emission

Technical Data compliant with Kerakoll Quality Standard	
Shelf life	≈ 12 months from production in the original sealed packaging, protect from humidity
Pack	25 kg
Adhesive thickness	from 2 to 15 mm
Temperature of the air, substrates and materials	from +5 °C to +35 °C
Pot life at +23 °C:	
- grey	≈ 40 min.
- white	≈ 30 min.
Correction time White and Grey (BIII tile):	
+23 °C	≥ 6 min.
Foot traffic/grouting of joints at +23 °C (BIa tile):	≈ 3 hrs
Foot traffic/grouting of joints at +5 °C (BIa tile):	≈ 8 hrs
Grouting in walls at +23 °C (BIa tile)	≈ 2 hrs
Ready for use at +23 °C / +5 °C (BIa tile)	
- light foot traffic	≈ 6 – 16 hrs
- heavy traffic	≈ 24 – 28 hrs
- swimming pools (+23 °C)	≈ 7 days
Coverage per mm of thickness (mixing ratio 25%)	≈ 1.25 kg/m^2

Values taken at +23 °C, 50% 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 and of the materials laid.

Performance		
VOC Indoor Air Quality (IAQ) - Volatile organic compound emissions		
Conformity	EC 1 Plus GEV-Emicode	GEV certified 14614/11.01.02
HIGH-TECH		
Shear adhesion (porcelain tiles/porcelain tiles) after 28 days	≥ 2 N/mm²	ANSI A-118.4
Tensile adhesion after 6 hrs	≥ 0.5 N/mm²	EN 12004-2
Tensile adhesion (concrete/porcelain tiles) after 28 days	≥ 2.5 N/mm²	EN 12004-2
Durability test:		
- adhesion after heat ageing	≥ 1 N/mm²	EN 12004-2
- adhesion after water immersion	≥ 1 N/mm²	EN 12004-2
- adhesion after freeze-thaw cycles	≥ 1 N/mm²	EN 12004-2
- adhesion after straining cycles	≥ 1 N/mm²	SAS Technology
Vertical slip	≤ 0.5 mm	EN 12004-2
Flexibility test according to GT method:		
- torsional moment (eccentric shear on 5x5 cm sample)	≥ 2.5 KN	
- bending moment (eccentric traction on 5x5 cm sample)	≥ 0.4 KN	
classification	GT-2	GT method
Transversal deformation	≥ 2,5 mm	EN 12004-2
Working temperature	from -40 °C to +90 °C	
Conformity	C2F TE S1	EN 12004

Values taken at +23 °C, 50% R.H. and no ventilation. Data may vary depending on specific conditions at the building site.

Warning

→ Product for professional use
→ abide by any standards and national regulations
→ do not use the adhesive to correct substrate irregularities greater than 15 mm
→ protect from direct rainfall for at least 6 hrs
→ the temperature, ventilation and absorption of the substrate and covering materials, may vary the adhesive workability and setting times
→ use the right size of notched trowel for the format of the tile or slab
→ guarantee a full-bed in all external laying operations
→ if necessary, ask for the safety data sheet
→ for any other issues, please contact the Kerakoll Worldwide Global Service +39 0536 811 516

Kerakoll Spa
via dell'Artigianato 9
41049 Sassuolo - MO

+39 0536.816.511
info@kerakoll.com

www.kerakoll.com