

FixoTile GEL



Hybrid, high-performance,
polymer-modified, cement-based
tile adhesive with Gel Technology

- » Exemplary thixotropy
- » Volume stability during the tile-fixing
- » Zero slip
- » Extremely extended open time
- » Complete wetting effect on to tiles
- » Unique ease on application
- » Application thickness up to 20mm
- » Ideal for large size tiles (up to 150x300cm), high requirements area such as underfloor heating
- » Certified for its extremely low percentage of emissions (VOC) with **EMICODE EC1^{PLUS}**
- » Indoor & outdoor usage

DESCRIPTION

FixoTile GEL is a high-performance, polymer-modified, cement-based white tile adhesive with zero vertical slip and extended open time. Its hybrid technology combines specifically modified inorganic additives with synthetic macromolecular spherical water-swellable copolymers and when it is mixed with water Gel mechanism activates. Contains natural hydraulic which improve the workability and extended open time. The ease of application helps the applicator to finish his project faster with minimal effort. It is classified as type **C2TE** tile adhesive according to EN 12004.

Its specially designed composition has been certified for extremely low VOC emissions according to **EMICODE EC1^{PLUS}**. At the same time, it meets the specifications of the **BREEM GN22** certification (Building Research Establishment Environmental Assessment Method), one of the most widely recognized and stringent international sustainability certification systems for buildings.

FixoTile GEL

Hybrid, high-performance, polymer-modified, cement-based tile adhesive with Gel Technology

FIELD OF APPLICATION

FixoTile GEL is suitable for fixing absorbent and non-absorbent decorative tiles (e.g. granite, natural stone, glass tiles, porcellanato, klinker, ceramics, etc.) on floors or walls. Ideal for small & large size tiles, and for areas where, adhesion and moisture resistance are required as well as in application of special requirements such as underfloor heating. It can be

applied on a variety of substrates such as: concrete, cement mortars, renders & masonry mortars, painted walls, dry construction (gypsum boards, cement boards, etc.), surfaces with existing and well anchored overlays of: tiles, marbles, mosaics. Indoor and outdoor usage.

TECHNICAL DATA (Measurement conditions 23 \pm 2 $^{\circ}$ C and 50 \pm 5% Relative humidity)	
Color	White
Mixing Ratio	7.0 l water in 25kg FixoTile Gel MAX
Grain size (max)	500 μ m
Bulk Density of dry mortar,	1.20 \pm 0,05kg/l
Bulk Density of fresh mortar	1.80 \pm 0,05kg/l
Application temperature	From +5 $^{\circ}$ C to +35 $^{\circ}$ C
Temperature resistance	From -35 $^{\circ}$ C to +95 $^{\circ}$ C
Application thickness	Up to 20 mm
Pot life	5 hours
Adjustment time	40min
Grouting in wall tiles	After 4-8 hours
Grouting in floor tiles	After 24 hours
Set to light foot traffic	After 24 hours
Ready for service	After 14 days
Consumption	3-4 kg /m 2

PRODUCT PERFORMANCES		
Initial tensile adhesion strength, after 28days	EN 12004-2, 8.3	≥ 2.00 N/mm 2
Tensile adhesion strength after:		
Water immersion		$\geq 1,50$ N/mm 2
Heat ageing at 70 $^{\circ}$ C	EN 12004-2, 8.3	≥ 2.00 N/mm 2
25 freeze-thaw cycles		$\geq 1,50$ N/mm 2
ADDITIONAL CHARACTERISTICS		
Slip	EN 12004-2, 8.2	$\leq 0,5$ mm
Open time: tensile adhesion strength after not less than 30 min	EN 12004-2, 8.1	$\geq 2,0$ N/mm 2
Reaction to fire	EN 13501-1	Euroclass A1

FixoTile GEL

Hybrid, high-performance, polymer-modified, cement-based tile adhesive with Gel Technology

DIRECTIONS FOR USE

1. SUBSTRATE - PREPARATION: To ensure good adhesion, substrate should be clean, solid, without large unevenness ($\leq 15\text{mm}$), free of dust, oil, lime, tar and loose elements.

Any new cementitious substrates (e.g. concrete, cement mortars, plasters, etc.) are ensured to be sufficiently cured for a period of at least 28 days, depending conditions.

On absorbent surfaces, before application, soak with water, without forming stagnant water.

On very absorbent surfaces (e.g. gypsum boards, cement boards, aerated concrete, etc.) it is recommended to apply the micromolecular substrate stabilization primer **Eco Dur Aqua** by **KRAFT Paints**.

2. MIXING: In a clean container add pure water (7.0 – 8.0) lt water per 25kg **FixoTile GEL**) and gradually empty the package content while stirring constantly with a low-speed electric mixer () under constant. Mixing must be done carefully so that no amount of product remains on the walls or bottom of the container. The product is ready for use when the mixture becomes homogeneous, creamy without lumps.

Let the mixture stand for about 5 minutes and stir again.

3. APPLICATION: Apply the adhesive up to 20mm thickness on the substrate using a notched trowel of appropriate size.

Then apply the tile with constant pressure to ensure good entire surface contact between adhesive & tile.

On large tiles ($>900\text{ cm}^2$) it is recommended to apply the adhesive all over the back side of each tile ("back-buttering" method) in order to achieve full bonding. Before application, ensure that tile surface is free of dust, otherwise clean thoroughly with water.

In normal conditions of temperature and humidity, the open time is at least 30 minutes. Otherwise, this time can be significantly reduced in adverse conditions (e.g. strong sunlight, high temperatures, dry air currents).

In any case, it is recommended to check the surface of applied adhesive, before tile fixing, to make sure that no membrane («skin») has formed. Otherwise, renew the adhesive by running notched trowel over it. If the adhesive has already start to set, remove it and spread a new «fresh» adhesive layer. Under no circumstances should the surface of the applied adhesive be wetted with water.

4. CLEANING OF TOOLS: Tools should be cleaned immediately after application with plenty of water while the material is still fresh or otherwise mechanically. Remove as much material as possible from tools before cleaning.

IMPORTANT NOTES

Do not apply at temperatures below $+5^{\circ}\text{C}$ and above $+35^{\circ}\text{C}$.

Do not apply in case of impending rain for at least the next 24 hours after application

Protect the application surface from rain and frost for at least 24 hours.

Do not apply directly on surfaces made of: wood, metal, plastic, PVC, foam concrete, asphalt and bitumen materials.

It is recommended to create expansion joints every 15 - 20 m^2 for outdoor applications and for underfloor heating applications indoor. In any case, it is recommended to create expansion joints at the perimeter of each application. Keep existing construction joints.

FixoTile GEL

Hybrid, high-performance, polymer-modified, cement-based tile adhesive with Gel Technology

PACKAGING - SHADES

The product is packaged in 25kg in white shade.

 1301/2878	Druckfarben Hellas S.A. Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, Greece
24 DoP No 05.26 FixoTile GEL EN 12004:2007 + A1:2012 Improved cementitious adhesive with reduced slip and extended open time for internal and external tiling	
Reaction to fire	A1 _{fl}
Bond Strength as:	
Initial tensile adhesion	≥ 1.0 N/mm ²
Durability, for:	
Tensile adhesion strength after water immersion	≥ 1.0 N/mm ²
Tensile adhesion strength after heat ageing	≥ 1.0 N/mm ²
Tensile adhesion strength after freeze-thaw cycles	≥ 1.0 N/mm ²
Release of dangerous substances	See SDS

CONSUMPTION

Consumption is about 3 - 4 kg/m². It depends on type of substrate, the application method, tools and conditions. Also on type and size of tile.

STORAGE

Stored on wooden pallets and in a dry environment with temperature above 5°C for 12 months from the production date.

HEALTH, SAFETY & ENVIRONMENTAL INFORMATION

Carefully read and follow all cautions and warnings on product label. For further information refer to the Safety Data Sheet for this product.

Poison Centre Telephone:

+30 210 7793777

CERTIFIED SYSTEMS

ISO 9001 ISO 140001 ISO 50001 ISO 45001

03/25 THIS TECHNICAL DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS RELEVANT TO THIS PRODUCT

4/4

DISCLAIMER: The above technical data, information, recommendations and guidance are based on scientific and technical knowledge, laboratory studies and long experience. However, the above information is considered to be as indicative and should be reviewed in any case in relation to each specific application conditions. Consequently, the suitability of each product in any application must be evaluated after referring to the updated Technical Data Sheet and to the website www.kraftpaints.com, as well as after contacting the technical support department, in case of necessity. Our company guarantees the quality of the product itself, whilst in any case the user/applicant is exclusively responsible for any undesirable failures after using the product.

DRUCKFARBEN HELLAS S.A.

ASPROPYRGOS 19 300, ATTICA - GREECE | TEL.: +30 210 55 19 500 - FAX: +30 210 55 19 501
www.druckfarben.com | www.kraftpaints.com



Toll-free number

800 111 7700 Monday - Friday, 8.00 am - 04.00 pm
 e-mail: paints.orders@druckfarben.gr