



Flex HM

C2TE cementitious adhesive for the thin-layer bonding of stone and ceramics, even outdoors.



MAIN AREAS OF USE

It is particularly suitable to:

Bonding tiles, ceramic lining and majolica tiles Making mosaics.

Recommended applications:

Bonding mineral coverings of all kinds: ceramic, earthenware, stoneware, single and double-fired, clinker, etc. Bonding insulating panels (EPS, extruded, cork, etc.)

- Suitable substrates (outdoors and indoors):
- Traditional substrates with cementitious plaster
- Standard cement-based screeds
- Laying on top of old existing floors (ceramic, porcelain stoneware, marble, etc.)
- Anhydrite screeds and gypsum-based plasters
- Fibre cement panels
- Expanded cellular cement
- Cementitious waterproofing (Line **licata.waterproofing** range)

CHARACTERISTICS

Its smoothness and workability reduce fatigue and laying times

Its adhesive strength and hygroscopicity make it the ideal solution for bonding to all common substrates

The minimised vertical slip allows for easy laying, even on vertical surfaces

Its extended open time makes it workable even beyond 30 minutes after mixing

Conforme alle classi C2TE della normativa UNI EN 12004.

HOW TO USE

Preparation of the substrate

The substrate must be clean, flat, cohesive and free of any kind of release agent.

It is always advisable to use **Tiles Eco Primer** to even out absorption.

- **New substrates:** no precautions other than those indicated.
- **Deteriorated or crumbling substrates:** Remove all crumbling or loose parts and restore correct flatness. On rigid walls, the **licata.repair** and **licata.cem** ranges are particularly suitable. Gypsum, anhydrite or plasterboard substrates must be treated with **Aggrappante LG**. Overlays on existing floors must include treatment with **Aggrappante LG** or **Tiles Eco Primer**, or washing with caustic soda or mechanical abrasion.

Preparing the mixture

1_Pour the product into a clean container, containing $\frac{3}{4}$ of the total mixing water

2_Mix for about 3-4 minutes using a low-speed mixer, adding the rest of the water gradually until a thixotropic, smooth and lump-free mixture has been achieved.

3_Let it rest for about 10 minutes, then stir again before use.

NOTE By adding **Licalatex** (in a 1:1 ratio with the mixing water), it increases flexibility, adhesion, abrasion resistance, impermeability and corrosion resistance; its use is therefore recommended in special conditions (e.g. swimming pools, refrigerating rooms, etc.).

Flex HM must be used as it is, with the sole addition of clean water. Do not split the packages to use them partially and do not use open bags.

Application

1A_Apply the adhesive using a 6-10 mm notched trowel, wetting the tile by at least 65% in the case of indoor application and 100% in the case of outdoor application.

1B_In the case of demanding applications (outdoors, pools, tanks, large areas, etc.), it is necessary to apply the adhesive even on the back of the tile in addition to the substrate; double spreading method.

2_The maximum thickness of the adhesive must not exceed 5 mm.

3_Exert enough pressure on the tile to ensure contact with the adhesive.

NOTE It is not necessary to wet the tiles before installation. Make sure that there is no dust on the back; if there is, wash them by immersing them in clean water.

PRODUCT INFORMATION

Appearance	Grey or white powder
Particle size	<0,5 mm
Powder consumption	From 2.5-5.5 kg/m ²
Mixing water	27%-29% of weight of powder
Workability time at 20 °C	≥ 30 minutes
Application thickness per coat	2-5 mm
Application temperature	From +5 ° to +35 °C
Foot traffic resistant	24/36 h
Usable	14 days
Storage in unopened original packaging	12 months in a dry place between +5° and +35°C
Packaging	25 Kg
Density	1250-1350 Kg/dm ³

PERFORMANCE

Characteristic	Test method	Legal requirement	Performance
Initial tensile adhesion strength	8.2 of EN 1348:2007	≥1 N/mm ²	≥1 N/mm ²
Tensile adhesion strength after water immersion	8.3 of EN 1348:2007	≥1 N/mm ²	≥1 N/mm ²
Tensile adhesion strength after thermal ageing	8.4 of EN 1348:2007	≥1 N/mm ²	≥1 N/mm ²
Tensile adhesion strength after freeze-thaw cycles	8.5 of EN 1348:2007	≥1 N/mm ²	≥1 N/mm ²
Slip	EN 1308	<0,5 mm	<0,5 mm
Extended open time: tensile adhesion strength	EN 1346	≥0.5 N/mm ² after not less than 30 min	≥0.5 N/mm ² after not less than 30 min

WARNINGS

- Product for professional use.
- In the case of applications other than those indicated in the sheet, it is advisable to carry out a suitability check in advance and/or contact the Licata Technical Service for further information.
- Always check the colour, texture and appearance before application. Any claims regarding this will not be accepted once the product has been applied.
 - Do not apply in extreme conditions such as on icy surfaces or in the presence of fog/excessive ambient humidity.
- To avoid aesthetic and functional defects, adequate shielding must be provided in case of direct exposure to sunlight.
- Make sure that the ambient, substrate and product temperatures during application and drying are between +5°C and +35°C.
 - Properly care for the product until it is completely dry and at least in the first 48-72 hours, protecting it from rain, wind, weather and direct sunlight.
 - The temperature and humidity can accelerate (if high) or slow down (if too low) even drastically the maturation process, until it stops completely.
 - The presence of scaffolding, the use of natural raw materials and the impossibility of controlling the atmospheric and substrate conditions can lead to signs of recovery and inhomogeneity for which Licata SpA is not responsible.
 - The fresh product can be washed with water.

SAFETY

Protect eyes and hands during application.
Read and keep the latest version of the Safety Data Sheet available for information on the correct disposal, storage and handling of the product.

NOTES

This data sheet replaces and voids all previous versions.
The instructions and performance information given in this document are based on our current technical-scientific knowledge and must in any case be considered purely indicative and refer to standard laboratory conditions. The purchaser must, therefore, check that the product is suitable for his specific requirements. All the documentation necessary for the safe use of Licata SpA products is available in its most up-to-date form on the **Licata SpA** company website. Additionally, our technical-commercial network guarantees a quick inquiry and remains available to you for information and explanations. For further information, contact the Licata Technical Service at servizio-tecnico@licataspa.it
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