



HERACOLL FIX

One-component cementitious adhesive in powder form, with a long open time, with excellent yield and easy workability, for laying ceramic tiles



TECHNICAL FEATURES

HERACOLL FIX is a white or gray powder adhesive, consisting mainly of high-strength cements, silicon / quartz mineral fillers of selected grain sizes and special resins and additives, mixed together according to the scrupulous research of the **HERAKEM** laboratory.

HERACOLL FIX mixed with water creates an adhesive with excellent workability, good thixotropy and high adhesion on various types of substrates. Applied vertically, it does not drip and does not let the tiles slip.

FIELD OF APPLICATION

HERACOLL FIX is used for laying absorbent ceramic tiles and mosaics on walls and floors, such as double-fired and single-fired tiles. **HERACOLL FIX** is suitable for application on cementitious substrates, as long as they are cured and dry, such as cementitious screeds and plasters or lime mortar-based plasters and gypsum-based plasters. **HERACOLL FIX** can also be used for laying cellular concrete elements. For applications on gypsum surfaces, a surface pre-treatment with **HERALAX AC**. In case of need, contact our Technical office.

PREPARATION OF THE SUBSTRATE

The substrates must be cured, free from dust, oils and greases, free from rising damp, free from crumbly and insubstantial parts or not perfectly anchored. The bottom must be stable, non-deformable, without cracks and have already completed the hygrometric shrinkage of maturation. In the case of substrates under direct sunlight, therefore in high temperatures, it is advisable to moisten them with a sponge in order to cool them and, before laying, wait until all the surface water has evaporated. Restore excessive unevenness with **HERARAS ONE** for thicknesses not exceeding 3 mm, for higher thicknesses and for a quick intervention use **HERAGROUT MONO** or self-leveling mortars such as **HERAPLAN 10**.

MIX PREPARATION

Mix with $23 \div 24\%$ clean water equal to $5,75 \div 6$ liters of water per 25 kg of product. Slowly add the powder to the water. Mix with a low-speed drill fitted with a mixing propeller until a homogeneous, lump-free mortar is obtained. Leave the mixture to rest for 5 minutes and mix again briefly. The adhesive thus prepared has a usage time of approximately 6 hours.

APPLICATION

Apply the adhesive with a special notched trowel, whose dimensions of the teeth will depend on the type and size of the tiles to be glued, so that total coverage of the back of the tiles is guaranteed. For better adhesion, it is advisable to first spread a thin and uniform layer of adhesive on the substrate using the smooth part of the notched trowel, and then to apply a second layer of the desired thickness with the toothed part. Apply the tiles by exerting adequate pressure and imparting a slight translational movement to them. For demanding applications, the double-buttering method is recommended to obtain an adhesive-tile contact extended to the entire bonding surface (spread the adhesive also on the back of the tile). The tiles must only be laid within that time interval in which the spread adhesive is still fresh, i.e. it has not yet formed a surface skin. This time interval is called the "open time" of the adhesive, and is a function of the environmental conditions. If the open time has been exceeded and the spread adhesive has formed a surface film, it is necessary to go over with the notched trowel to "refresh" it. Absolutely avoid wetting the adhesive on the surface as this would form an anti-adhesive film of water, irreparably compromising the adhesion. The tiles normally do not need to be wet before laying; only in the case of tiles with dusty backs it is recommended to wash them by dipping them for a few moments in clean water; wait for the veil of water to disappear before placing them. On gypsum-based substrates, pre-treatment with **HERALAX AC** is absolutely necessary. After laying, protect the covering for at least $24 \div 48$ hours from rain and washout and for at least 7 days from direct sunlight. In the case of installation in the winter months, it is necessary to protect from frost for at least 48 hours.



JOINT

The tiles can be grouted after 4 ÷ 8 hours on the wall and after 24 hours on the floor with the special **HERAKEM** cementitious sealants, available in different colors.

CLEANING

The tools used for installation must be cleaned with water before the adhesive hardens; subsequently, cleaning can only take place by mechanical removal. Any adhesive residues on the surface of the tiles must also be cleaned with a damp cloth before the adhesive sets.

ITEM OF SPECIFICATIONS

Indoors, absorbent ceramic floors and coatings must be laid with a cement-based powder adhesive of class "**C1** according to **EN 12004**" such as **HERACOLL FIX** (produced by **HERAKEM**) which allows a thickness of up to 5 mm on cementitious substrates.

WARNINGS

Do not use in the following cases:

- On supports subjected to deformations or thermal and mechanical stresses.
- On heated floors or overlapping on old ceramic floors.
- For laying marble and natural stones.
- On plasterboard walls.
- On metal, PVC, rubber or linoleum surfaces, wood.
- For laying tiles that require an adhesive thickness greater than 5 mm
- Where rapid walkability is required
- For laying non-absorbent ceramic tiles.
- For laying large formats.
- On precast and cast concrete structures.
- For laying on gypsum substrates and ready-made gypsum-based plasters, first apply a coat of **HERALAX AC** before spreading the adhesive.

TECHNICAL DATA *(at +22±1°C and 55±5% R.H.)

Appearance	powder	Recording time	≥ 30 min*
Color	gray and white	Walkability	24 hours*
Density of the powder	1300 kg/m³	Ready for use	14 days*
Solid residue	12 months in the original dry packaging	Initial adhesion	≥ 0,5 N/mm²
Flammability	no	Adhesion after heat action	≥ 0,5 N/mm²
Customs heading	3824 5090/0	Adhesion after immersion in water	≥ 0,5 N/mm²
Mixing water	about 23%	Adhesion after freeze-thaw cycles	≥ 0,5 N/mm²
Density of mix	1500 kg/m³	Moisture resistance	Excellent
Pot life of mix	about 6 hours	Resistance to aging	Excellent
Application temperature	from +5°C to +35°C	Resistance to solvents and oils	Excellent
Open time	≥ 20 min*	Resistance to acids and alkalis	Poor

Consumption	from 2.5 to 4.5 kg/m² in function of the spatula used	Packaging	25 kg bag
--------------------	--	------------------	------------------

PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.