



HERACOLL FLEX

Professional cementitious adhesive with high mechanical performance, with extended open time, deformable anti-slip, **ideal for overlapping**.



TECHNICAL FEATURES

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

HERACOLL FLEX mixed with water gives life to a mixture of extraordinary workability, excellent thixotropy, with excellent flexibility and adhesiveness. Applied vertically it does not drip and does not let the tiles slip. The extended open time allows safe installation even in hot and windy climates. The high quality of the adhesive allows it to be used with the overlay system for quick and easy installation on existing floors.

FIELD OF APPLICATION

HERACOLL FLEX is used to lay all types of absorbent and non-absorbent ceramic tiles and mosaics such as single-fired, double-fired, klinker, on walls and floors on new and overlapping existing ones, even in large sizes, indoors and outdoors. stoneware, terracotta, glass mosaic, natural stone or marble (as long as they are dimensionally stable and not subject to staining

HERACOLL FLEX finds excellent use on substrates subject to intense traffic, radiant floors, concrete surfaces (seasoned), swimming pools, foam concrete, insulating panels.

Furthermore, **HERACOLL FLEX** is recommended for the laying and smoothing of insulating panels in the external insulation system.

PREPARATION OF THE SUPPORT

The substrates must be cured and dry, 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. On old floors, check that all the old tiles are well anchored. Carefully clean and prepare the surface of the old floor by first washing with water and soda, then washing with suitable detergents. For a better result then treat the surface with **HERALAX GRIP** or, if necessary, in the case of overlapping on glazed or generally very smooth ceramics, resort to scarification or "shot peening" of the surface. In the case of laying on gypsum, anhydrite, quick-drying screeds, an insulating treatment with **HERALAX AC**. Restore excessive unevenness with **HERARAS ONE** smoothing compound for thicknesses not exceeding 3 mm, for higher thicknesses and for quick intervention use **HERAGROUT MONO** or self-leveling mortars such as **HERAPLAN 10**.

MIX PREPARATION

Mix the product with $27 \div 29\%$ clean water. Slowly add the powder product to the water and 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.

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 depends on 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. In exteriors and in demanding applications, to further guarantee the final result and obtain an adhesive-tile contact extended to the entire bonding surface, it is recommended to apply the double-buttering method (spread the adhesive on the substrate but also on the back of the tile). On gypsum-based substrates, pre-treatment with **HERALAX AC** is absolutely necessary.

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

Ceramic floors and coverings must be laid with a high mechanical performance cementitious adhesive in powder form, no vertical slip, extended open time, deformable, class "**C2TES1** according to the current standard **EN 12004**" type **HERACOLL FLEX** by **HERAKEM**.

WARNINGS

- Do not use with temperatures below + 5 ° C and above + 35 ° C.
- Do not use on plasterboard walls.
- In the case of high temperatures, wetting the substrate helps to prolong the open time.
- Do not use on metal, rubber, vinyl, wood, linoleum or PVC floors.
- Do not use for laying tiles that require an adhesive thickness greater than 15 mm.
- Do not use where rapid walkability is required.
- Protect the coverings after installation from rain, frost and high temperatures for at least 24 hours and for at least 5 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.
- In case of need, contact our Technical office.

TECHNICAL DATA (at +23°C and 50% R.H.)

Appearance	powder	Ready for use	14 days*
Color	gray and white	Adhesive transversal deformation class	≥ 2,5 mm - Class S1
Density of the powder	approx. 1558 kg/m³	Initial adhesion	≥ 1 N/mm²
Storage	12 months in original dry packaging	Adhesion after heat action	≥ 1 N/mm²
Flammability	no	Adhesion after immersion in water	≥ 1 N/mm²
Customs heading	3824 5090/0	Adhesion after freeze-thaw cycles	≥ 1 N/mm²
Mixing water	6,5 ÷ 7 liters of water per 25 kg bag	Resistance to humidity	Excellent
Density of mix	about 1700 kg/m³	Aging resistance	Excellent
Pot life of mix	more than 6 hours*	Resistance to solvents and oils	Excellent
Application temperature	from +5°C to +35°C	Resistance to acids and alkalis	Poor
Open time	≥ 30 min*	Consumption	from 2.5 to 5 kg/m²
Recording time	≥ 40 min*	Packaging	25 kg bag
Walkability	24 hours*		

PRODUCT FOR PROFESSIONAL USE

*DATA DETECTED UNDER REGULATORY CONDITIONS

This technical data sheet is based on the knowledge acquired thanks to our experience. We reserve the right to modify the data contained therein as a result of technical improvements and advances. Considering the different materials and different processing techniques, not subject to our direct control, we cannot assume any responsibility for the use of these indications. **We therefore recommend that you carry out sufficient tests yourself and consult our Technical Assistance service.**