

BENFERJOLLY

**TWO PART
EPOXY-POLYURETHANE FLEXIBLE
ADHESIVE FOR INTERIOR
AND EXTERIOR FLOOR
AND WALL TILING WITH MARBLE,
GRANITE AND NATURAL STONE**

TECHNICAL FEATURES:

Benferjolly is a two part white adhesive consisting of epoxy-polyurethane resins, graded particle size aggregates and special additives. It has been formulated and developed for rapid, reliable installation of almost all marble, granite, natural stone, marble agglomerate and tiles in composite marble with polyester resins or cements, including on non-absorbent substrates or substrates subject to slight dimensional variation. A special waterless composition makes this product especially suitable where there is a need to avoid the risk of irreparable staining, not least on porous varieties of marble, and prevent the possible deformation of reconstituted marble tiles.

FIELDS OF APPLICATION:

The substrate should be dry and sound and protected from rising damp.

Floor and wall installation of marble, marble agglomerate and composite marble tiles, including low thickness tiles.

Interior and exterior floor and wall tiling with natural stone and granite.

Interior and exterior floor and wall tiling with all types of ceramic, including on hot-water heated screed.

Interior and exterior floor and wall tiling with gres porcellanato, vitreous mosaic and non-absorbent, single-fired tiles.

Tiling over existing internal ceramic or wood floors.

Tiling on iron and steel substrates, which must be first sanded, fixed and suited in the way to be prone to movements and bending assimilable to those of



cements substrate.

Tiling on plasterboard.

Tiling on gypsum and anhydrite substrates.

METHODS OF USE AND CONTRA-INDICATIONS:

Benferjolly is a caustic and harmful product. Avoid contact with skin and eyes wearing suitable protective clothing.

Do not use on damp surfaces or on substrates which are subject to rising damp.

The substrates must be solid, free from oil, grease and dust. They must be sufficiently cured (at least 1 week for every centimetre of thickness) and levelled. Any paint-work must be in good condition, washed and degreased. If this is not the case, the paint must be removed without damaging the plaster. It is essential to leave a joint of at least 3 mm between each tile, and to ensure that the tiling conforms with

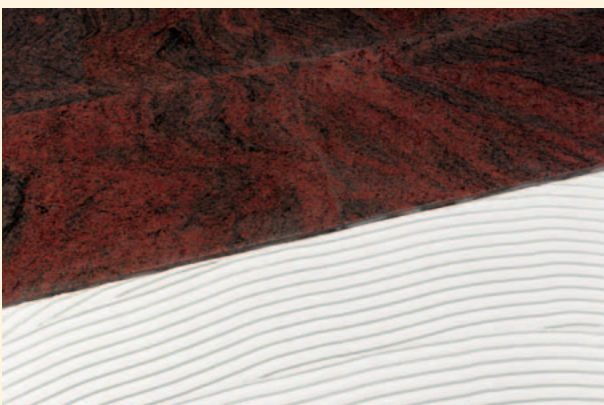


the expansion joints of the structure to be elastically sealed, the joints between walls, and the joints between wall and floor. In any event, expansion joints or perimeter joints must be left about every 20 m².

Use the product in temperatures between + 10°C and + 30°C only; in temperatures below to 10°C product does not harden.

Do not add water, solvents or other catalysts to mixing.

Mix well strictly the contents of each can (component A+B). Any modification could cause the incorrect hardening of the product.



PREPARATION OF THE MIXTURE:

Pour the component B (catalyst) into the bucket of component A and mix well with a low speed electric stirrer to obtain a homogeneous paste. **Benferjolly** is a two-part adhesive, which hardens as the result of a chemical reaction between two components; accordingly, it is very important that the two parts are used in the correct proportions, which on a construction site can be ensured only by mixing the two premeasured packs in their entirety.

TILING:

Install the tiles by applying sufficient pressure that there is at least 80% contact between tile and wall and 95-100% contact between tile and floor.

At 23° the open time of the mix is approximately 60 minutes and the pot life is approximately 50 minutes. In unfavourable conditions (high room temperature - for example: +30° C), these times may be significantly reduced. In these circumstances the product should be used within 30 minutes, spreading a little at a time, and discarding the mixture as soon as it begins to thicken in the bucket. Flooring installed using **Benferjolly** can be walked over cautiously after



about 12 hours for the purpose of grouting, and is ready for normal use after 3 days at 23°.

COVERAGE:

Coverage depends on the state of the substrate and the type of spreader used. On a smooth substrate, with an adhesive thickness of 2-4 mm, using for example trowels with square teeth of 5x5 / 10x10, coverage is 2,5-5 kg/m².

CLEANING:

Tiling and tools should be cleaned with alcohol when the adhesive is still fresh. Hardened product can be cleaned mechanically only.

**PACKAGING AND STORAGE:**

Benferjolly is packed in 5 kg and 10 kg plastic cans and has a shelf life of approximately 12 months.



PRODUCT TECHNICAL DATA

CONSISTENCY	COMP. A PASTE. COMP. B THICK LIQUID
COLOUR	COMP. A WHITE. COMP. B STRAW YELLOW
CONSERVATION	12 MONTHS IN THE ORIGINAL PACK IF PROPERLY SEALED
DANGER OF HARM	COMP. A HARMFUL IN CONTACT WITH SKIN AND IRRITATING IN CONTACT WITH EYES AND SKIN. MAY CAUSE SENSITIZATION. COMP. B CAUSTIC AND HARMFUL IN CONTACT WITH SKIN, INGESTION AND INHALATION. MAY CAUSE SENSITIZATION.
FLAMMABILITY	NO
MIXING RATIO	COMP. A / COMP. B 94:6
COVERAGE	2,5/5 Kg/m ²
APPLICATION TEMPERATURE	FROM + 10°C TO + 30°C
MIXTURE POT LIFE	50 MINUTES
OPEN TIME AT 23°C	60 MINUTES
WALKOVER TIME WITH CAUTION FOR GROUTING ON DRY SUPPORTS AT 23°C	12 HOURS
FINAL HARDENING ON DRY SUPPORTS AT 23°C	3 DAYS

FINAL PERFORMANCES

	VALUE	MINIMUM REQUIREMENT
SHEAR ADHESION STRENGTH 28 DAYS (EN 12003)	≥ 2 MPa	≥ 2 MPa
SHEAR ADHESION STRENGTH AFTER WATER IMMERSION (EN 12003)	≥ 2 MPa	≥ 2 MPa
SHEAR ADHESION STRENGTH AFTER TERMAL SHOCK (EN 12003)	≥ 2 MPa	≥ 2 MPa
ADHESION AFTER HEATING (14 DAYS + 14 DAYS AT 70°C)	≥ 1.6 MPa	
RESISTANCE TO TEMPERATURE	FROM - 30°C TO + 80°C	
CONFORMS TO	EN 12004 CLASS R2T	

data collected at 23°C and 50% of r.h.