

TECHNICAL SHEET 11.02.01-EN



AKRINOL Classic

Adhesive for ceramics

1. Description, Application

AKRINOL Classic is a multipurpose construction adhesive based on cement and intended to be used in the interior and the exterior. It is suitable for laying ceramic tiles, clinker and glass and other mosaics onto the unproblematic wall (fine lime, lime-cement and cement renders) and floor surfaces (concrete, cement plasters/renders) and also for installing floor ceramics in buildings with floor heating. It performs perfectly at fixing of boards made of porous concrete (autoclaved aerated concrete (AAC)) when building light foundation walls and partitions. classification according to EN 12004: C1T

2. Colour Shades

- grey

3. Technical data

Packaging		5 kg, 25 kg
Density		~1.61 kg/dm³
Water dilution mass		~25 %
Average consumption		~2 - 3 kg/m²
Processing times of the adhesive compound and other functional times (T = +20 °C, relative air humidity = 65 %)	Open time (ready-to-use adhesive compound)	~3-4 h
	Open time of the applied adhesive	~20-25 min
	The possibility of changing the position of the laid tile	~10 min
	Foot traffic of the laid floor tile covering	after 12 h
	The possibility of grouting (walls)	after 4-8 h
	The possibility of grouting (floor)	after 24 h

Tensile adhesion strength 20 minutes after application EN 12004-2	>0.5 N/mm ²
Slip of the laid tile EN 12004-2	<0.5 mm
Initial tensile adhesion strength EN 12004-2	>0.7 N/mm ²
Tensile adhesion strength after water immersion EN 12004-2	>1.1 N/mm ²
Tensile adhesion strength after heat ageing at +70 °C EN 12004-2	>0.6 N/mm ²
Tensile adhesion strength after freezing and thawing EN 12004-2	>1.1 N/mm ²
Temperature resistance	-40 to +70 °C

4. Installation Conditions

The temperature of the air and the wall surface should not be lower than +5 °C and not higher than +35 °C and relative air humidity should not exceed 80 %. Protect façade surfaces against the sun, wind and rainfall with curtains; however, do not conduct any work in rain, fog or strong wind (≥30 km/h) despite such protection.

5. Surface Preparation

a) Laying ceramic tiles, clinker, glass and other mosaics

Surfaces include solid, dry and clean fine lime, lime-cement or cement render finishes as well as dry, adequately rough and clean concrete surfaces and surfaces of cement screed, without any badly-adhered particles, dust, remains of oils, grease and other filth. Prior to fixing the coatings, dry the newly applied render finishes at least 7 to 10 days for each centimetre of their thickness (the data refer to normal conditions: T = +20 °C, rel. humidity = 65 %) and remove all paint coats, decorative slurries, oil coatings, varnishes and enamels from the old ones. Concrete surfaces and cement screeds should be at least a month old. Prior to the application of the adhesive, moisten very dry surfaces and cover or impregnate very absorbent or extremely unevenly absorbent surfaces with diluted ACRYL Emulsion (in ratio 1:1).

For technical information on these primers, please read the technical data sheet.

b) Fixing AAC blocks

Joint surfaces should be solid and clean, without any badly-adhered particles, dust, remains of oils, grease and other dirt. Just moisten the boards well prior to fixing.

6. Preparation of Adhesive

Prepare the adhesive by blending the content of a bag of 25 or 5 kilos of dry compound into ~6.25 or ~1.25 litres of water to obtain homogenous compound without any lumps. Wait for 10 minutes for it to swell up then stir again well, and, if necessary, add a little water. The prepared adhesive compound must be applied within approximately 3 to 4 hours.

7. Application of Adhesive

a) Laying ceramic tiles, clinker and glass and other mosaics

Apply the adhesive with a notched steel trowel or a notched steel masonry smoothing trowel. When fixing tiles of medium size – with sides between ~10 and ~20 cm – the width and dept of notches on the trowel or the smoothing trowel should be 4 to 6 mm, for fixing smaller tiles and mosaics use tools with finer notching and for tiles with sides larger than ~20 cm tools with rougher notching. When determining surface area onto which the adhesive is spread, please consider that the open time of the adhesive to be applied onto a wall or on the floor in normal conditions is only approximately 20-25 minutes. Lay the tiles close together or insert appropriately thick plastic distancing pieces into joints. Soak very absorbent tiles in water prior to fixing. Tile position can be changed maximum 10 minutes after installation.

Subsequently, fill joints between tiles with a tile joint filler in a selected colour shade and dilatation joints with a suitable permanently elastic mastic. Indicative or average use (depending on the tile size or of the notching of the application tool):

b) Fixing AAC blocks

Apply the adhesive onto joint surfaces with a notched trowel (width and depth of notches 4 mm x 4 mm) so that the

thickness after “pressing” does not exceed 2 mm. When building, follow masonry rules related to brick connections.

8. Storage, Transportation Conditions and Durability

During transportation, protect the product against moistening. Store in dry and airy places, out of the reach of children!

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months for 5 kg and at least 6 months for 20 kg packaging.

9. Other Information

Technical instructions are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work. JUB also bears no responsibility in cases where the substrate for the application of our products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.

Safety measures: Follow the instructions on the safety data sheet of the product.

This technical sheet supplements and replaces all preceding editions. JUB reserves the right to change and supplement data in the future.

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