

## TECHNICAL SHEET 11.02.03-EN



# AKRINOL Flex

## Flexible adhesive for ceramics

### 1. Description, Application

AKRINOL Flex is a multi-purpose construction adhesive for interior and exterior use based on cement and polymer binders. It is suitable for fixing ceramic tiles, clinker, glass and other mosaics to all types of wall surfaces (fine lime, lime-cement and cement plasters, plasterboard and fibre-cement boards, aerated concrete, water-repellent chipboard, etc.) and floor surfaces (concrete, cement screeds). It is used for fixing ceramic floors in buildings with underfloor heating, for fixing new ceramics to old ceramic coverings, as well as for fixing ceramic floors in swimming pools.

classification according to EN 12004: C2TES1

### 2. Colour Shades

- grey

### 3. Technical data

Packaging	5 kg, 25 kg	
Density	~ 1.54 kg/dm <sup>3</sup>	
Water dilution mass	~25 %	
Average consumption	~2 - 3 kg/m <sup>2</sup>	
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 30 minutes after application EN 12004-2		>0.8 N/mm <sup>2</sup>
Slip of the laid tile EN 12004-2		<0.5 mm
Initial tensile adhesion strength EN 12004-2		>1.5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion EN 12004-2		>1 N/mm <sup>2</sup>
Tensile adhesion strength after heat ageing at +70 °C EN 12004-2		>1.9 N/mm <sup>2</sup>
Tensile adhesion strength after freezing and thawing EN 12004-2		>1.2 N/mm <sup>2</sup>
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 ( $\geq 30$  km/h) despite such protection.

#### 5. Surface Preparation

Surfaces include solid, dry and clean fine lime, lime-cement or cement render finishes as well as dry and clean concrete surfaces and surfaces of cement screeds, fibre-cement and gypsum-cardboard boards, chipboards and old ceramic coatings 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 plasters/renders should be at least a month old.

Prior to the application of the adhesive, only moisten standard surfaces and cover or impregnate very absorbent or extremely unevenly absorbent surfaces with diluted ACRYL Emulsion. Prior to fixing, cover problematic surfaces such as surfaces of old ceramic coatings, smooth concrete, fibre-cement boards, gypsum cardboards and chipboards with AKRINOL Super grip.

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

#### 6. Preparation of Adhesive

Prepare the adhesive by blending the content of a bag – of 25 or 5 kilos of dry compound - into ~6.5 or ~1.3 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

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.

Thoroughly clean the tools with water immediately after use. Dried stains cannot be removed.

## 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 24 months for 5 kg and at least 12 months for 20 kg packaging.

## 9. Other Information

The technical instructions in this brochure are given based on JUB's experience and are given as a guideline for achieving optimum results. JUB cannot accept any responsibility for the damage caused by incorrect selection of a product, incorrect use or unprofessional 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.

Denomination and date of publishing: TRC-077/22-čad, 18.07.2024