

## TECHNICAL SHEET 13.02-eng

### TILE JOINT FILLERS

# FUGALUX 1 – 10

## Tile joint filler

### 1. Description, Application

FUGALUX 1—10 is a powder compound based on cement and used for **grouting interior and exterior wall and floor tile surfaces** (ceramic tiles and clinkers of all types, glass and other mosaics, slabs made of natural and artificial stone) of housing, business facilities and facilities open to public. It is suitable for **filling joints up to 10 mm wide and deep**, including floor tile linings of rooms with floor heating. It is distinguished by **high resistance to wear** and **good water repellence with distinctive “drop effect”** and **long-lasting resistance against infection with wall mould**.

The FUGALUX 1 – 10 joint filler is not suitable for grouting tile linings, which are not resistant to acid and alkaline (tile linings of industrial buildings, small-trade plants, laboratories, and similar), neither does it comply with requirements for joint fillers, filling any kinds of dilatation joints, tile linings of swimming pools and filling of joints between stove tiles and other elements of ceramic stoves.

### 2. Packaging, Colour Shades

paper bags containing 2 kilos

- 10 (white), 11 (jasmine), 12 (ivory), 13 (beige), 14 (manhattan), 15 (black), 16 (grey), 17 (green), 18 (brown), 19 (dark brown), 20 (chestnut), 21 (red), 22 (blue), 23 (ultramarine), 24 (agave), 25 (caramel), 26 (apricot), 27 (yellow), 28 (mimosa) and 29 (mint) under JUB's JOINT FILLER colour chart

paper bags containing 5 kilos

- 10 (white) and 14 (manhattan) under JUB's JOINT FILLER colour chart

Compounds of different shades can be mixed in optional ratios!



### 3. Technical Data

Characteristics:		Guaranteed values:	SIST EN 13888 requirements
Density – compound ready to apply (kilo/m <sup>2</sup> h <sup>0,5</sup> )		~1,80	-
Temperature persistence of the applied joint filler ( °C)		-40 do +80	-
Attained strength characteristics of the applied joint filler	Guaranteed light foot traffic	12 hours after filling	-
	Permitted maximum load	7 days after filling	-
Compressive strength after freezing EN 12808-3 (MPa)		>20,0	>15,0
Flexural strength after freezing EN 12808-3 (MPa)		>5,0	>3,5
Contraction EN 12808-4 (mm/m)		<2,0	<2,0
Water absorption after 4 hours of soaking EN 12808-5 (g)		<1,0	<5,0

Essential ingredients: cement, polymeric binder, calcite and quartz fillings, cellulose thickener, pigments and hydrophobic additives.

Classification under SIST EN 13888: **CG2ArW**

### 4. Surface Preparation

Times, in which tile linings reach the state of being suitable for grouting, depend on the type of the applied adhesive mortar, its drying conditions (air and surface temperature, relative air humidity, humidity and absorption of surface, size and absorption of slabs or tiles, and similar) and other factors. Guide values for "normal conditions" (T = +20 °C, relative air humidity = 65 %) are stated in the following table:

Lining type	Standard adhesives	Fast setting adhesives	Traditional cement mortars
Wall tile linings	~8 hours after fixing	~2 hours after fixing	~2 to 3 days after fixing
Floor tile linings	~24 hours after fixing	~4 hours after fixing	~7 days after fixing

A tile lining - including joints - should be cleaned well by removing remains and clots of adhesive, dust and other filth from it. If joints get wet during the process, start grouting only after they are completely dry.



## 5. Joint Filler Preparation

During constant stirring, pour the content of the bag (5 kilos or 2 kilos) into the appropriate quantity of water (~1,5 l or ~0,6 l). Stir well using an electric mixer to obtain a homogenous paste-like compound (with no lumps). Wait for 5 minutes for it to swell up then stir again well – if necessary, add a little water to the compound. The prepared compound can be used for approximately 2 hours.

### WARNING!

To grout a single panel, apply only a joint filler of the same production date or of only one production batch since there may appear slight differences in colour shades between batches. If the compound is prepared several times to grout larger panels, prepare each mixture with the same amount of water.

## 6. Joint Filler Application

The joint filler is applied by a rubber trowel or a smoothing rubber trowel. Fill the joints in the diagonal direction (in an angle of approximately 45° to the direction of the joints). When the “film” on the surface of the tiles changes its colour (or when the compound in the joint does not give in when pressed slightly) – in normal conditions (T = +20 °C, air humidity = 65 %) this happens after 5 to 10 minutes – wash the lining with a soft sponge and water, wipe it with a dry cloth and polish it.

### WARNINGS!

The coherence of the colour shade of the applied joint filler with the sampler or with the colour chart and the equality of the colour shade depend strongly on drying conditions and on the consolidation of the compound, as well as on the technique and hygiene of cleaning of the grouted surface (the following is inadmissible: excessive moistening of grouted tile linings with water, cleaning with dirty water and leaving water on cleaned surfaces!).

Surfaces of rough or highly absorbing tiles are more difficult to clean, therefore, in general and especially in such cases, test the cleaning procedure on a test tile prior to application of the joint filler. When removing the “film” applied to the tile surface, diluted acetic acid or special cleaning agents may be used to remove cement stains. The joint filler contains quartz sand, which may in exceptional cases damage the tile surface during grouting; therefore, use a tile to test its resistance against scratching prior to application.

Application of a joint filler is possible only in suitable weather or microclimate conditions: the temperature of the air and of the tile lining should not be lower than +5 °C and not higher than +25 °C; protect outer surfaces against sun, wind and rainfall, but do not conduct any work despite such protection in rain, fog or in case of strong wind (>30 km/h). If the temperature of the air or the surface exceeds +20 °C, moisten the joints with water prior to applying the filler.

Approximate or average consumption: 0.5 - 1.0 kilo/m <sup>2</sup> , depending on the width and depth of joints and the size of tiles.
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Apply the following calculation to obtain the estimation on consumption:
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$$P = [(A + B) \times C \times D \times 15] / (A \times B)$$

P – approximate consumption of a joint filler (kilo/m<sup>2</sup>); A – length of the tile (cm); B – width of the tile (cm); C – thickness of the tile (cm);

D – width of joint fillers (cm)

## 7. Tool Cleaning, Waste Management

Thoroughly clean all the tools with water immediately; dried stains cannot be removed.


Mix dusty remains of the product with water (hardened mortar remains and wastes, sand or sawdust may be added to them) and when they harden, they should be deposited onto the dumping grounds of construction waste (waste classification number: 17 09 04) or municipal waste (waste classification number: 08 01 12).

Cleaned paper bags can be recycled.



## 8. Safety at Work

The product contains cement and is thus classified among dangerous preparations (indicator of danger: Xi - IRRITANT) – apply it safely, follow special instructions from the technical sheet in addition to general instructions and regulations on safety at construction work or works including laying ceramic tiles and further instructions stated below.

Warning signs on packaging	Special measures, warnings and explanations necessary for safe work
Xi  CONTAINS CEMENT!	R 36/38 Irritating to eyes and skin. R 41 Risk of serious damage to eyes. S 2 Keep out of the reach of children. S 24/25 Avoid any inhalation, contact with skin and eyes.  S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 28 After contact with skin, wash immediately with plenty of water. S 37/39 Wear suitable gloves and eye/face protection. S 46 If swallowed, seek medical advice immediately and show this container or label.

## 9. Maintenance and Restoration of Processed Surfaces

The non-adhering dust and other non-adhering filth can be swept, vacuumed or washed with water. Adhering dust and more obstinate stains can be removed by light rubbing using a soft brush soaked into a solution of usual universal household preparations and washed away by clean water.

Paint joints with joint refresheners on surfaces, which cannot be cleaned off filth or stains in the above described manner. They can be obtained in specialized shops selling paints. Prior to such painting, disinfect wall surfaces infected with wall mould using one of the agents for destroying wall mould – JUB recommends its product called ALGICID.

## 10. Storage, Transportation Conditions and Durability

Protect the product against moistening during transport. Store in dry and airy places!

Durability when stored in an originally sealed and undamaged packaging: at least 24 months in bags of 2 and 5 kilos.

## 11. Quality Control

The product's quality characteristics are determined with the internal manufacturing specifications as well as with the Slovenian, European and other standards. We constantly monitor the declared or set quality level in our own labs and periodically at the Construction Institute in Ljubljana and also at other independent institutions at home and abroad. The quality level is also ensured by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years. During the manufacturing process, we strictly comply with the Slovenian and European standards for protection of the environment and for ensuring security and health at work, which is confirmed by the ISO 14001 and OHSAS 18001 certificates.

## 12. Other Information

Technical instructions in this brochure are given based on our experiences and are given as a guideline for achieving optimal results. We don't take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work.

Colour of joint filler is the closest possible approximation to the colour chart, the sampler or the validated sample and may differ slightly from the desired colour shade.

If you wish to check the colour shade, dry the application of a joint filler on a test surface correctly and check a standard of the concerned shade, which is stored in the TRC JUB d.o.o.. Difference in colour shade, which is a result of inadequate preparation of the joint filler, of unsuitable conditions during application and consolidation of the joint filler, of



an application technique, which differs from the one in instructions or application of the compound onto an unsuitably prepared, on wet or not dried enough surface, cannot be subject of complaint.

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

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