

TECHNICAL SHEET 13.02.03-ENG
 TILE JOINT FILLERS

AKRINOL Fugamix Superflex S2

Highly flexible dispersion tile joint filler for tinting

1. Description, Application

AKRINOL Fugamix is a dispersion tile joint filler used for **grouting interior and exterior wall and floor tile surfaces** (ceramic tiles and clinkers of all types, glass and other mosaics) in residential, commercial and public facilities. It is suitable for **filling joints up to 6 mm wide and deep**, including floor tile linings of rooms with floor heating. It is distinguished by **high resistance to wear, high elasticity and good water repellence with distinctive “drop effect”** and **long-lasting resistance against infection with wall mould**.

The AKRINOL Fugamix joint filler is not suitable for grouting tile linings for which acid and alkaline resistance is explicitly required (tile linings of industrial buildings, small-trade plants, laboratories, and similar), neither does it comply with the requirements for joint fillers for filling any kinds of dilatation joints and of joints between stove tiles and other elements of ceramic stoves.

2. Packaging, Colour Shades

Plastic containers holding 3 kilos

- White
- Selected colour shades according to the JUB colour chart

3. Technical Data

Characteristics		Guaranteed values	SIST EN 13888 requirements
Density – compound ready to apply (kg/dm ³)		~1.85	-
Temperature persistence of the applied joint filler (°C)		-40 to +80	-
Attained strength characteristics of the applied joint filler	Guaranteed light foot traffic	12 to 24 hours after grouting (depending on conditions during application)	-
	Permitted maximum load	7 days after grouting	-
Compressive strength after freezing EN 12808-3 (MPa)		>15 (4 weeks of hardening) >40 (4 months of hardening)	>15.0
Flexural strength after freezing EN 12808-3 (MPa)		>4.5 (4 weeks of hardening)	>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
Transverse deformation (mm) According to SIST EN 12002	>5.0	>5.0

Main ingredients: polymeric binder, quartz fillers, pigments, hydrophobic additives

Classification under SIST EN 13888 and SIST EN 12002: **DG2ArW S2**

4. Preparation of Substrate

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 substrate 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. Preparation of Joint Filler

Prior to application, only stir the compound well. If necessary, add a little water (up to max 10 ml per bucket)

6. Application of Joint Filler

Since AKRINOL Fugalux can be tinted into very vivid colour shades, prior to applying the compound onto an already built in ceramics, its cleaning should be tested on a tester (cut off piece) of a ceramics of the same type not yet built in.

The joint filler is applied by a rubber trowel or a rubber smoothing trowel. Fill the joints in the diagonal direction (in an angle of approximately 45° angle to the direction of the joints). After 2-3 m² of grouted lining or PRIOR TO BEGINNING OF FORMATION OF SURFACE CRUST, form the tile joint filler by using a THOROUGHLY SQUEEZED SPONGE! Clean the remains of traces on the lining after 2 to 4 hours (depending on the tile joint filler thickness).

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 heavily 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 substrates!).

Substrates 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 substrate, diluted acetic acid or special cleaning agents may be used to remove stains. The joint filler contains quartz sand, which may in exceptional cases damage the tile surface during grunting; 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:

AKRINOL Fugamix 0.5 – 1.5 kg/m², depending on the width and depth of joints and the size of tiles

Use the following calculation to obtain the consumption estimate:

$$P = [(A + B) \times C \times D \times 18.5] / (A \times B)$$

P – approximate consumption of a joint filler (kg/m²); 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 the tools with water immediately after use. Dried stains cannot be removed.

Keep the unused mortar compound in a well-sealed packaging for potential repairs. Hardened remains and waste 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 packaging can be recycled.

8. Safety at Work

Special measures, warnings and observations required for safe work

· Precautionary statements

P273 Avoid release to the environment.

P402+P404 Store in a dry place. Store in a closed container.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

· Additional information:

It contains a reaction compound of Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate and Bis (1,2,2,6,6-pentamethyl-4-piperidyl). It can cause an allergic reaction.

Safety sheet available upon request.

Fungicide protection of a layer of compound is enabled with the content of substance Zinc pyrithione (according to the Directive EU EC/528/2012, Article 58).

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.

10. Storage, Transportation Conditions and Durability

Storage and transportation at temperature +5°C to +25°C, protected from the direct sunlight, MUST NOT FREEZE!

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months.

11. Quality Control

The product's quality characteristics are determined by the internal manufacturing specifications as well as by the Slovene, European and other standards. JUB is ensured the achieving of the declared or set quality level by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years and which comprises daily quality checks in our own laboratories, occasionally at the Construction Institute in Ljubljana and other independent expert institutions in Slovenia and abroad. During the manufacturing process, JUB strictly complies with the Slovene and European standards for the protection of the environment and for ensuring security and health at work, which has been confirmed by the ISO 14001 and OHSAS 18001 certificates.



12. Other Information

Technical instructions contained in this brochure are provided on the basis of JUB's experience and are given as a guideline to achieve the optimum results. JUB cannot accept any responsibility for damage caused by incorrect selection of a product, incorrect use or unprofessional work.

The joint filler colour 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. JUB reserves the right to change and supplement data in the future.

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The product is made by the holder of ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certificates.

