



2500 Ultrafuga Flex

Description

High performance (high resistance to abrasion and reduced water absorption), cementitious, silicone enhanced, grout for 2 to 20 mm joints.

Fields of Application

- Grouting of all types and sizes of ceramic tiles, granite, cotto, clinker, glass mosaics, marble, natural stones with 6-20 mm joints at interior and exterior floors, and walls.
- Grouting wet places like swimming pools, water tanks.
- Grouting places where sudden temperature changes and heavy traffic exist like facades, terraces, over floor heating installations, warehouses.
- Floor and wall grouting of places like bathrooms, showers, balconies and kitchens.

Properties

- Less prone to dirtiness, easy to clean.
- Low water absorption with water repellency.
- Approved to be used in contact with water intended for human consumption.
- Low shrinkage, therefore absence of cracks and fissures.
- Very good abrasion resistance.
- Good compressive and flexural strength and good resistance to freeze/thaw cycles.
- Fast curing.
- A smooth final surface.
- Low water absorption.
- Ultra-violet and atmosphere resistant 14 different colours.
- Ultrafuga Flex Tozumaz is user friendly with dust-free technology that allows a cleaner application particularly in interior areas.

Preparation of Substrates

- The joint gaps should be dry, clean, and solid.
- The joint gaps should be free of adhesion preventive foreign substances such as dust, dirt, cement residues, etc.
- The joint gaps should be at least 2/3 of the tile thickness.
- When laying the tiles, adhesive or mortar overflowing into the joint cavities should be cleaned before it hardens.
- Dampen the joints with clean water when using very porous ceramic tiles in high temperatures and in the presence of wind.

Application

- Adhesive must be cured prior to grouting.
- Pour Ultrafuga Flex slowly on clean water at an amount specified in the technical table and mix until a homogeneous mixture is obtained. A low speed mixer is recommended to use. The amount of water should be precisely measured. Do not add any additive which is not mentioned in the application instructions. Adding water more or less than specified amount may cause cracking, dusting and color defects.
- Allow the mortar to stand for 5-10 minutes to mature. After 1-2 minutes of remixing, the paste is ready for application.
- Use the mixture within 30 minutes of preparation.
- Fill the joints completely with Ultrafuga Flex using the appropriate rubber trowel, make sure that the joints are completely compacted. Remove excess Ultrafuga Flex from the surface moving the float diagonally across joints
- When the grout mortar filled into the joint cavity loses its water and becomes dull, usually after about 10-20 minutes, the surface should be cleaned in a circular motion with a wet sponge. This period may be shortened in applications made in unfavorable ambient conditions such as direct sun, wind, etc. when coating materials have waited under the sun or have high absorbcency. The problem of fluctuation in color may be encountered if the wiping is done too soon or when using a very wet sponge. The sponge should be cleaned frequently and water inside the bucket must be renewed frequently to prevent the development of haze on the tile surface.
- After making sure that the Ultrafuga Flex grout mortar is cured enough not to drain from the joint, the residues on the surface should be cleaned with the help of a dry cloth.



2500 Ultrafuga Flex

Post-Application Protection & Suggestions

- The materials such as natural stone, cotto, clinker and granite ceramic which are sensitive to stain should be protected with Seracare Surface Protector so as not to be affected by Ultrafuga Flex.
- If the surface of walls and floors are still contaminated with Ultrafuga Flex use Seracare Cement Remover to clean, at least 10 days after grouting the joints.
- Dispose mortars of which pot life is expired.
- All tools and hands should be cleaned with water before drying after the application.
- If Ultrafuga Flex is applied in extremely hot, dry or windy climates, it is recommended to wet the joints after several hours to improve the final performance.
- The consumption values in the technical table refers to an average consumption amount. It may vary depending on the application conditions and surface properties.
- Since it contains cement, it irritates the eyes, respiratory system and skin. For further information refer to the safety data sheet.

Storage

- Should be kept dry and cool at between +5°C and +35°C in damp free conditions. Avoid direct sunlight.
- Should be protected from water, frost and adverse weather conditions.
- Maximum 3 pallets should be stacked on top of each other.
- Shelf life is maximum 12 months under above mentioned storage conditions.

Packaging

- 5 kg polyethylene bags.
- 20 kg multi-ply paper bags.



2500 Ultrafuga Flex

Technical Properties

(at 23°C and 50% RH)

General Data

Appearance	White and coloured powder
Shelf Life	12 months when stored in the original sealed packing in a dry place.

Application Data

Mixing Ratio	5.8 – 6.2lt water / 20 kg. powder; 1.45 – 1.55 lt water / 5 kg. powder
Application Temperature Range	(+5°C) - (+35°C)
Pot Life	30 minutes
Set to Light Traffic	1 day
Consumption	See consumption table depending on width of the joints and dimensions of the tile.

Performance Data

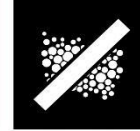
Flexural Strength (after 28 days) (EN 12808-3)	$\geq 2.5 \text{ N/mm}^2$
Compressive Strength (after 28 days) (EN 12808-3)	$\geq 15 \text{ N/mm}^2$
Flexural Strength (after freeze/thaw cycles) (EN 12808-3)	$\geq 2.5 \text{ N/mm}^2$
Compressive Strength (after freeze/thaw cycles) (EN 12808-3)	$\geq 15 \text{ N/mm}^2$
Abrasion Resistance (EN 12808-2)	$\leq 1000 \text{ mm}^3$
Shrinkage (EN-12808-4)	$\leq 3 \text{ mm/m}$
Water Absorption after 30 min / 4 hours (EN 12808-5)	$\leq 2 \text{ g.} / \leq 5 \text{ g.}$
Service Temperature Range (after final cure)	(-30°C) - (+80°C)



2500 Ultrafuga Flex

Consumption

Tile Dimensions	Joint Width			
	2 mm	3 mm	4 mm	6 mm
10x10 cm	400-550 gr/m ²	600-800 gr/m ²	800-1100 gr/m ²	1200-1600 gr/m ²
20x20 cm	200-300 gr/m ²	300-400 gr/m ²	400-550 gr/m ²	600-800 gr/m ²
30x30 cm	150-200 gr/m ²	200-300 gr/m ²	300-350 gr/m ²	400-550 gr/m ²
60x60 cm	100 gr/m ²	100 gr/m ²	200-300 gr/m ²	200-300 gr/m ²



Certificates of Quality

TS EN 13888, Class CG2WA.

C: Cementitious

G: Grout

2: Improved

W: Reduced water absorption

A: High abrasion resistance

"Ege University Engineering Faculty, Chemical Engineering Laboratory Approval Report according to BS 6920 (suitable for use in contact with water intended for human consumption)"