

Hand mixer , trowel, rubber tipped trowel, sponge tipped trowel, squeegee , brush

NIVAKIM NIVAFILL/1100

■ Definition

Cement based grouting mortar

■ Application area

It is used in the joint gaps between 0-6 mm of ceramic, tile, natural stone, granite, marble and similar coating materials indoors and outdoors.

It gives excellent results in indoor, horizontal and vertical applications.

■ App features

-Usable time max . 1 hour

-Hardening time: 12 hours

-Time required for the ground to be opened to traffic: 24-48 hours

It has 30 different color options.

■ Surface preparation

-The surfaces on which grouting will be applied should be free of dust, dirt, oil, etc. It should be cleared of residues that will prevent sticking, such as

-The surface to be worked on should not be too dry and in a state to cause sweating.

- When coating materials with high absorbency are used, the joints should be moistened with clean water while applying in hot and windy weather.

- If the ambient temperature is high, collapse, roughening and cracking may occur as there will be sudden water loss after the application.

■ Application conditions

-Ambient temperature between +5 °C and +35 °C,

- It should not be applied on frozen, melting or frost risk surfaces within 24 hours.

- It should not be applied under direct sun, strong wind or on hot surfaces.

■ Warnings and Advice

-Absolutely no foreign substances should be added.

-After the application, all the tools used should be washed with water before they dry.

■ Application tools

■ Application

- The container in which the mortar will be prepared must be clean and free from the residues of the previous mixture.

Attention should be paid to the cleanliness of the water and materials used.

-The mortar should be prepared at the rate of 20 kg NIVAKIM NIVAFILL material to 7-7.5 liters of water.

-Water is poured into the container first, and then the powder is gradually sieved. Mix until there are no lumps.

A low speed mixer should be used to make the mixture homogeneous.

-After obtaining a homogeneous mixture, it is rested for 4-5 minutes. It is mixed again for 1-2 minutes before starting the application.

- After the mixture becomes homogeneous, no powder, water or any other substance should be added.

Spread the prepared mortar on the surface and fill the joint gaps thoroughly with a rubber trowel or spatula , first with parallel and then with cross movements.

-As soon as the grouting material starts to dry on the surface, the material is cleaned from the surface with the help of a damp sponge with circular movements.

-After the surface dries, the surface is completely cleaned with a dry cloth.

Finally, polishing is done with a cloth.

-The prepared mortar should be consumed within 1 hour.

Expired or crusted mortar in the container should be discarded.

-After the application, hands and application tools should be washed with plenty of water.

-At least 24-48 hours after the application, the application area should be opened for use.

• Performance Information

-Abrasion Resistance: $\leq 2000 \text{ mm}^3$

-Bending strength after dry storage: $\geq 2.5 \text{ N/mm}^2$

-Bending strength after Freeze-Thaw cycle: $\geq 2.5 \text{ N/mm}^2$

-Compressive strength after dry storage: $\geq 15 \text{ N/mm}^2$

-Compressive strength after Freeze-Thaw cycle: $\geq 15 \text{ N/mm}^2$

-Shrinkage : $\leq 3 \text{ mm/m}$

-Water absorption, after 30 minutes: $\leq 5 \text{ g}$

Water absorption, after 240min: $\leq 10 \text{ g}$

-These values have been obtained as a result of laboratory experiments and are valid for the performance of the finished applications after 28 days.

■ Consumption

Ceramic size	joint depth	Joint spacing (mm)		
		1mm(g/m ²)	2mm(g/m ²)	3mm(g/m ²)
100x100	6	200	400	600
100x200	6	200	300	500
100x200	9	250	500	750
150x150	6	150	270	400
200x200	8	170	340	500
200x250	9	120	250	360
200x300	8	130	250	400
250x330	8	one hundred	200	300
300x300	9	one hundred	200	300

• Reference Standards

- TS EN 13888/ Class: CG1
- Public Works Item No: 04.0132

• PACKAGING

- In 20 kg Kraft bags, 5 and 1 kg polyethylene bags
- 64 pieces on pallet, 1280 kg

■ Physical state

- 30 different colors (See Construction chemicals catalog grouting chart), powder

• Storage Conditions

- Care should be taken to place a maximum of 10 layers of Kraft bags on top of each other during storage.
- Storage should be done indoors and in areas away from direct sunlight.
- The bags should be stored in such a way that they do not touch the ground and be protected from moisture.
- Improper storage conditions or exceeding the period of use may deteriorate the qualities of the product.