

Cement Based, Flexible Tile Grout

Cement based, polymer and silicone added, high performance, flexible tile grout, suitable for 1 - 6 mm joints and can be applied on permanently wet surfaces such as pools and water

Advantages

- Excellent resistance against high temperatures up to 250°C
- High water repellency and flexible structure
- Excellent resistance against cracking and shrinkage
- Suitable for horizontal and vertical surfaces and wet surfaces such as pools and water tanks

Areas of Use

Used for filling joint gaps of 1-6 mm in ceramic, marble, natural stone, glass mosaic coating materials on floors and walls, both indoors and outdoors. Suitable for use in industrial areas, terraces and balconies that are exposed to heavy traffic and require mechanical and chemical cleaning.

Technical Information

Abrasion Strength (mm³)
≤ 1000

Compression Strength (N/mm²)
≥ 15.00 N/mm²

Water Absorption in 30 minutes (g)
≤ 2

Fire Reaction Class
A1

Bending Strength (N/mm²)
≥ 2.50 N/mm²

Shrinkage (mm/m)
≤ 3.00

Water Absorption in 240 minutes (g)
≤ 5

Application Period
≤ 1 hour

Surface Preparation Before Application

Ensure that the joint gaps are dry, intact and clean. Remove dust, dirt, oil, cement residues that prevent adhesion between the joint gaps to be applied. Ensure that joint gaps is blank up to at least 2/3 of the tile thickness. Clean adhesives overflowing into the joint gaps when the tiles are being laid, while the mortar is still fresh. Moisten highly absorbent tiles with clean water in case of high ambient temperature or windy weather conditions. Cure adhesive before joint filling application.

Method of Application

Add 20 kg of **YAPBOND® FLEX JOINT** slowly over an average of 6.20 - 6.60 liters of clean water. Mix until a homogeneous mixture is obtained, preferably with a low-speed mixer or a trowel. Do not add any substance that is not specified in the application instructions. Adding more or less water than specified may cause cracking, dusting and discoloration.

Allow the prepared mortar to rest for 5-10 minutes to set. Mix again for 1-2 minutes before starting the application. Spread the mortar on the surface and fill the joints with a rubber trowel using diagonal movements and remove the excess from the surface by scraping. When the material filled into the joint gap has lost its water and become matt, usually after 10-20 minutes, clean the surface with a damp sponge using circular movements.

This period may be shortened in applications made under improper ambient conditions such as direct sunlight or wind, between coating materials that have stood in the sun for a long time or have high absorbency. You may experience color fluctuations when wiping is done prematurely or with a very watery sponge. Clean the sponge at frequent intervals. After making sure that the joint filler applied is sufficiently dry so that it does not drain from the joint, remove any residue remaining on the surface with a dry cloth. Use the mixture within 1 hour after preparation.

Cement Based, Flexible Tile Grout (Tijer Harcı)

Maintenance and Recommendations After Application

Surface protectors should be applied prior to installation to prevent grout residues from affecting stain-sensitive, porous, and absorbent covering materials such as cotto, clinker, polished granite, and ceramic tiles. If mortar residues remain on the surface due to improper cleaning, they may be removed using a cement remover by following the application instructions, at least 10 days after the grout application. Mortar that has exceeded its pot life or has begun to harden in the container must be discarded. After application, hands and application tools should be washed thoroughly with plenty of water while the grout is still fresh.

When applied under very hot, dry, or windy conditions, lightly sprinkling water over the surface a few hours after application is recommended to improve final performance. The stated consumption values are for general guidance only and may vary depending on application conditions and surface characteristics. As the product is cement-based, avoid inhaling the dust and prevent contact with skin and eyes.

Storage and Shelf Life

Store in a clean, dry environment, free from moisture, between +50C and +350C, away from direct sunlight. Protect against water, frost and severe weather conditions. Store in stacks of maximum 10 layers. Storage life is maximum 12 months from the date of production, provided that the storage conditions specified are complied with.

Consumption

Ceramic Sizes	Joint Width			
	2 mm	3 mm	4 mm	6 mm
10 x 10	0.40 - 0.55 kg/m ²	0.60 - 0.80 kg/m ²	0.80 - 1.10 kg/m ²	1.20 - 1.60 kg/m ²
20 x 20	0.20 - 0.30 kg/m ²	0.30 - 0.40 kg/m ²	0.40 - 0.55 kg/m ²	0.60 - 0.80 kg/m ²
30 x 30	0.15 - 0.20 kg/m ²	0.20 - 0.30 kg/m ²	0.30 - 0.40 kg/m ²	0.40 - 0.55 kg/m ²
60 x 60	0.10 kg/m ²	0.10 kg/m ²	0.20 - 0.30 kg/m ²	0.20 - 0.30 kg/m ²

Information on Safety Precautions

First, take all necessary Occupational Health and Safety precautions in the areas for the application and ensure that the operations are carried out by persons with technical knowledge and equipment. Follow the Occupational Health and Safety instructions for all the work carried out. It is mandatory to use all occupational safety equipment such as work clothes, protective gloves/goggles/masks etc. specified in accordance with the Occupational Health and Safety instructions during the application. The working area needs to be ventilated. Do not approach warehouses and storage areas with fire. Avoid contact of the product with skin and eyes, immediately wash the area of contact with plenty of water and seek medical advice immediately in such a case. Also, prevent contact of food and beverages with the product. Store and protect away from children. See Material Safety Data Sheet (**MSDS**) for further information. Also, the application of the product should be carried out by persons with adequate technical knowledge, equipment and experience. The user is solely responsible for this.

Responsibility

All information provided in this data sheet is for recommendation purposes only. All products should be used by persons with technical knowledge and equipment, observing the recommendations. **YAPKİM Yapı Kimya San. A.Ş.** cannot be held responsible for any consequences that may occur during or after any use. This document is valid until a new version is issued and supersedes all previous versions. **YAPKİM Yapı Kimya San. A.Ş.** may make changes in the nature of the product. Safety precautions must be taken during the use of the product. These measures are not limited to those listed above as examples, and it is the sole responsibility of the user to take all security measures.

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