

Cement Based Surface Fine Repair Mortar

Cement based, single-component, polymer modified, high performance, R2 class, fine-grained surface leveling and repair mortar.

Advantages

- Offers high adhesion strength
- Can be applied up to a thickness of 2 - 20 mm
- Forms a smooth and strong surface finish
- Not affected by water and provides excellent resistance to climatic conditions
- Allows repair of concrete structural elements in both vertical and horizontal directions

Areas of Use

Used for repair and leveling of concrete on interior and exterior facades, walls and ceilings of buildings. Used as repair mortar on walls before installing coating materials such as ceramics and tiles.

Technical Information

Application Thickness
2 - 20 mm

**Application Thickness
In A Single Coat**
2.0 mm

**Public Works
Pos. Number**
10.300.2071

Compression Strength
(28 days) $\geq 15.00 \text{ N/mm}^2$

Concrete Bonding Strength
(28 days) $\geq 1.0 \text{ N/mm}^2$

Application Period
60 minutes

Capillary Water Absorption
 $\leq 0.50 \text{ kg.m}^{-2}.\text{h}^{-0.5}$

Surface Preparation Before Application

Ensure that the application surface is free of oil, dirt and rust, mold oils, and is strong and clean. Always moisturize the application surface and saturate it with water on hot and windy days. Surface and ambient temperature should be between +5°C and +35°C. Avoid application under strong wind or sunlight. Do not apply on surfaces that are frozen, melting or in danger of frost within 24 hours.

Method of Application

Add an average of 4.25 - 5.00 liters of clean water to a 25 kg bag of YAPBUILT RM 405. Mix YAPBUILT RM 405 with a trowel or a low speed hand mixer until it becomes homogeneous. Allow the mixture to stand for 2 minutes before application. Apply YAPBUILT RM 405 evenly over the entire surface with a steel trowel. If more than one coat will be applied, wait 3 hours between coats and moisturize the surface before applying the next coat. Total thickness should not exceed 20 mm. Ensure the smoothness of the surface with a plastic trowel or damp sponge. After application, moisturize the surface for 2-3 days.

Do not add water to the hardening mortar.

Cement Based Surface Leveling and Fine Repair Mortar

Maintenance and Recommendations After Application

When applying **YAPBUILT RM 405**, if the ambient temperature is below +5°C or above +35°C, wait for suitable temperatures. Do not apply in extremely hot, rainy or windy weather. Do not apply on surfaces that are frozen, melting or in danger of frost within 24 hours. The thickness of single coat application should be max. 2.0 mm. Do not add water and new material to the mixture that has started to cure. Not applicable on plaster, old painted surfaces, gas concrete. Clean the tools and equipment you have used with water after application. **YAPBUILT RM 405** may only be mechanically removed from the surface after it has hardened.

Storage and Shelf Life

Store in a clean, dry environment, free from moisture, between +5°C and +35°C, 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

An average of 1.50 - 2.00 kg/m² **YAPBUILT RM 405** is used for 1 mm application thickness.

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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