

## ACS MORTAR RM FAST<sup>®</sup>

Cement-based, Fast Setting, High Strength,  
Repair Mortar



### ■ Description

ACSMORTARRMFAST<sup>®</sup> It is a cement-based, one-component, very fast drying repair mortar that allows application on it in a short time. Conforms to TS 13813 standard and CT-C30-F7 class.

### ■ Places of usage

- On the floor, wall and ceiling in interior facades,
- On the subfloors of self-leveling screeds, the gap
- Filling concrete voids and cracks
- in repair,
- In the repair of broken prefabricated concrete elements
- As a high-strength concrete repair and correction mortar,
- Correction and repair mortar on exposed concrete, gas concrete, cement-based plaster, screed, natural stone and old ceramic coatings.

### ■ Consumption

1 mm kalınlık için yaklaşık 1,65 kg/m<sup>2</sup>

### ■ Advantages

- Fast setting and coating in a very short time
- It is used indoors.
- It is easy to apply, does not require much labor.
- Does not shrink or crack.
- It is used to fill cracks and gaps.
- Provides high adherence to concrete and reinforcement.
- It has almost no shrinkage and expansion stress.
- For wheelchair accessible surfaces and underfloor heating systems

### Technical Description:

|                                                 |                                          |    |
|-------------------------------------------------|------------------------------------------|----|
| Structure of the Material                       | Contains mineral fillers, special cement | VK |
| Colour                                          | Grey                                     |    |
| Compressive Strength (TS EN 196) 1-day strength | 1 day > 20 N/mm <sup>2</sup>             |    |
| *Compressive Strength (TS EN 196) 28 days       | > 30 N/mm <sup>2</sup>                   |    |
| *Bending Strength (28 days) (TS EN 196)         | > 7.0 N/mm <sup>2</sup>                  |    |
| Adhesion Strength (To Concrete) (28 days)       | > 2.0 N/mm <sup>2</sup>                  |    |
| Application Thickness                           | min. 10mm<br>max. 30mm                   |    |
| Temperature of the ground to be applied         | +5°C +35°C                               |    |
| Usage Time (+20°C)                              | 15 min.                                  |    |
| Walking Time (+20°C)                            | after 60 min                             |    |
| Time required to manufacture on                 | after 60 min                             |    |
| Fire Class                                      | A1 class                                 |    |

\* Typical values: Obtained as a result of experiments performed on a 4x4x16 cm mortar prism at +23°C, 50% relative humidity conditions. High temperatures shorten the times, low temperatures lengthen them.

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### Application procedure/ Surface Preparation

- Make sure to ensure that the cement-based surfaces of the buildings to be repaired are strong, bearing, dust-free and clean. The surface must be thoroughly cleaned of all kinds of oil, grease, rust and paraffin residues that will weaken the adherence. The edges of the surface created by breaking should be cut as perpendicularly as possible, the rust on the reinforcement should be cleaned, and new reinforcement should be added if necessary. If there is water flow on the surface, it should be drained or closed with a suitable plug. The application surface should be saturated with water, but no free water should remain on the surface.

### Mixing

The appropriate amount of water (4,0 lt clean water) is poured into the clean mixing bucket with the help of a scale. ACS MORTAR RM FAST® is added slowly and mixed for 3-4 minutes with a 400-600 rpm mixer until a homogeneous and lump-free mixture is obtained. The prepared mortar should be consumed within 15 minutes at an air temperature of 10°C-20°C. The remaining material after 15 minutes should never be used. Application temperature may vary during the working time of the mortar. High temperatures reduce the application time, while low temperatures increase it. If the temperature is below +5°C, the application should not be made.

The applied ACS MORTAR RM FAST® hardens and dries completely after approximately 45 minutes. After about 60 minutes, a final coat can be applied on it.

Final correction can be made with self-leveling floor leveling screed on the applied ACS MORTAR RM FAST® product.

### Mixing ratios:

| ACS MORTAR RM FAST® | 1 kg         | 25 kg         |
|---------------------|--------------|---------------|
|                     | For powder   | For bag       |
| Mixing Water Amount | Max 0,16 lit | Max. 4,00 lit |
| Mixture Density     | 1,85 kg/lit  |               |

### Application Method

Prepared ACSMORTARRMFAST® mixture should be applied with a trowel in a single layer with a thickness of between 10 mm and 30 mm. Before applying the second layer, after the first layer has dried, the second layer is applied to the surface in the same way. In cases where a smooth surface finish is desired, the mortar is expected to absorb its water and the surface is completed with a steel or wooden trowel by sprinkling water on the shranked mortar with a plasterer's brush.

### Tips to notice

- Application should be made according to standards and instructions. That ratio should not be exceeded and no substance not specified in the instruction should be added.

It should not be applied outdoors, on surfaces that are

constantly wet and have moisture problems. If necessary, trial applications should be made in a small area.

- Surface absorbency should be determined before the application, a single layer should be applied with a suitable floor primer and allowed to dry.
- Application should not be made at ambient temperature below +5-10°C.
- If parquet, PVC and moisture-sensitive coatings are to be made, the subfloor must be dry.
- After application, hands and application tools should be washed with plenty of water.
- Since the product sets and cures quickly, the floor should be protected from wind and direct sun effect during application.
- The indicated consumption amount is a general information. It may vary depending on application conditions and surface properties.

### Cleaning of tools

Tools and equipment used after the application should be cleaned with water. ACS MORTAR RM FAST® can only be cleaned from the surface by mechanical method after setting.

### Package

25 kg polyethylene reinforced kraft bag

### Storage Conditions

In its unopened original packaging, in a dry and closed environment at +5°C -+25°C. In short-term storage, maximum 3 pallets should be placed on top of each other and the shipment should be made with a first-in, first-out system. In long-term storage, pallets should not be placed on top of each other.

### Shelf life

12 months from the date of manufacture under suitable storage conditions. Opened packages should be stored under appropriate storage conditions and used within one week.

### Safety Information

During the application, work clothes, protective gloves, glasses and mask should be used in accordance with the Occupational and Occupational Health Rules. Due to the irritating effects of uncured materials, the components should not come into contact with the skin and eyes. In case of contact, they should be washed with plenty of soap and water. If swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, see the Material Safety Data Sheet.

#### Responsibility

The data which contains in this technical document is based on our scientific and practical knowledge. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is only responsible for the quality of the product. ACS A PLUS CONSTRUCTION SOLUTION YAPI ANONİM ŞİRKETİ is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones. (06/2019)