

ACS MORTAR RM 20®

Cement Based, Exposed Concrete
Repair Mortar with Gum Consistency



■ Description

ACS MORTAR RM 20® is cement based one - component, polymer reinforced high strength surface repair mortar.
(In compliance with EN 1504-3 / R2.)

■ Place of usage

- Repairing and plastering the slabs and ceilings.
- Edge and corner repair.
- Repair of the defects on the concrete surfaces before coating (tile etc.) applications.
- Repairing and plastering the exposed concrete.
- It is used as adherence additive in repair mortars.

■ Consumption

1.50 kg/m² for obtaining 1 mm thick layer

■ Advantages

- Can be applied in wide areas without cracking.
- Provides high thixotropic properties.
- Perfect bonding to the concrete substrates.
- Resistant to water and bad weather conditions.
- Resistant to freeze-thaw cycle.
- Mixed with only water and can be applied easily.

TECHNICAL CHARACTERISTICS

Composition	Special Cement, Mineral Fillers, Polymer	WK 
Color	Grey	
* Pressure Strength (28 days) (TS EN 196)	> 18 N/mm ²	
* Flexural Strength (28 days) (TS EN 196)	> 3,0 N/mm ²	
Adhesion Strength (To Concrete) (28 days)	> 1,0 N/mm ²	
Application Thickness	Min. 5 mm Maks. 20 mm	
The Temperature of The Ground	+5°C +35°C	
Use Time (+20°C)	35 Minutes	
Fully Cured Time (+20°C)	28 Days	

* Typical values have been obtained as a result of experiments done at +23 °C, 50% relative humidity, 4x4x16 cm mortar prism. The values may change due to the difference in site ambient. High temperatures shorten and low temperatures extend the process.

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APPLICATION PROCEDURE / SURFACE PREPARATION

Cement-based surfaces must be dust-free and clean. The surface should be thoroughly cleaned of any oil, grease, rust and paraffin residues that will weaken the adherence. The iron and wooden blocks on the surface should be removed and the gaps up to 4 cm deep should be filled with **ACS MORTAR RM 20[®]**. The application surface should be slightly moistened but free water should not remain on the surface.

MIXING

Add enough water into a clean mixing bucket by using a proper water gauge. Add the powder into the bucket slowly and continuously. Mix the fresh mortar with a proper electrical mixer (300-600 rpm) for 4 minutes until having a homogenous consistency. Let the mortar have rest for 4 minutes and re-mix for 30-40 seconds.

MIXING RATIOS

ACS MORTAR RM 20 [®]	1 kg powder	25 kg bag
Mixture Water Amount	0,220 liter	5,50 liter
Mixture Density	1,78 kg / liter	

APPLICATION METHOD

Should be applied to the prepared surface by using a steel trowel. Application thickness should be between 5-20 mm. After the mortar finishes its first setting, some water should be sprayed onto the mortar and the surface should be finished with using steel or wooden trowel. Open areas should be protected from the rain, wind, etc. aggressive whether conditions during the first 24-48 hours after finishing repair by using wet clothes, curing membranes etc.

TIPS TO NOTICE

- Mixed mortar must be used in 30 minutes in 20 °C. Working time will be 20 minutes in 30 °C. Open areas should be protected from the rain, wind, etc. aggressive whether conditions during the first 24 hours after finishing repair.

- Cement based materials' pot life and curing times vary depending on the relative humidity, substrate and ambient temperature. Reaction gets slow in low temperatures and it causes to extension on pot life and working time. On the other hand high temperatures speed up the reaction, which results to short pot life and working time. For full curing of material, both the substrate and ambient temperature shouldn't be under allowed application temperature.

CLEANING OF TOOLS

After the application all tools should be cleaned with water. **ACS MORTAR RM 20[®]** can be cleaned with only mechanical abrasion after hardening.

PACKAGING

25 kg bag

STORAGE

In unopened original package, it should be stored in a cool and dry environment at + 10 °C + 25 °C temperature protected from the freezing. In short-term storing, maximum 3 palettes can be stowed on top of each other and delivery has to be according to first in first out system. In long-term storing, the palettes must not be stowed on top of each other.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be closed firmly and consumed within 1 week.

SAFETY

During the application, work clothes, protective gloves, goggles and masks should be used in accordance with the Occupational Health and Safety Rules. Due to the irritating effects of uncured materials, the components should not be allowed to come into contact with the skin and the eye. In case of contact, immediately wash with plenty of water and soap. If swallowed, seek medical advice immediately. Food and beverages should not be left at the application areas. Keep out of reach of children.

□ Responsibility

The technical information given in this publication is based on the present state of our best 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)