

ExperRepair SM 12

COLOR OPTIONS: Grey

25
±%2 KG



Repair and Structural Technical Mortars

1504-3/R3 106425

GÜVEN MADENCİLİK İNŞAAT SAN. ve TİC. A.Ş.

CEMENT BASED, NON-SHRINKAGE STRUCTURAL REPAIR MORTAR (R3)

Cement based, single component, polymer and fiber added, high strength, R3 class, non-shrinkage, thixotropic, structural repair mortar.



DOES NOT
SHRINK



HIGH COMPRESSIVE
STRENGTH

TECHNICAL SPECIFICATIONS

Chemical Structure	Cement based, polymer and fiber-added powder
Mortar Density	2,05 g/cm ³ (±0,1)
Mixture Ratio	4,00-4,50 lt water / 25 kg powder
Pot Life	~25 minutes
Application Thickness	5-40 mm (for local repairs)
Bond Strength to Substrate	≥1,5 N/mm ² (EN 1542)
Compressive Strength	Day 1: ≥11 N/mm ² (EN 12190) Day 7: ≥25 N/mm ² (EN 12190) Day 28: ≥35 N/mm ² (EN 12190)
Bending Strength	≥7 N/mm ² (EN 12190)
Soluble Chlorine Content	≤% 0,05
Reaction to Fire	A1
Consumption	1,90-2,10 kg/m ² (for 1 mm application thickness)

* All technical values are calculated at +23°C and 50% relative humidity.
Changes in temperature and humidity change the technical values.

ADVANTAGES

- Easy to apply.
- Thixotropic structure.
- Does not shrink.
- Provides high bonding shortly after application.
- High compressive strength.
- High resistance against impacts and vibrations.
- Resistant against water and frost.
- Does not contain corrosive materials.

APPLICATION AREAS

Used as filler and repair mortar:

- Indoors and outdoors,
- Horizontal and vertical applications,
- Repair and leveling applications of concrete and reinforced concrete structural elements requiring high strength,
- Filling the gaps between old and new concrete,
- Filling of rod holes and core cavities,
- In chamfer applications before waterproofing applications.

SURFACE AND APPLICATION CONDITIONS

- The ambient temperature should be between +5°C and +30°C.
- Avoid application in humid, rainy and high temperature weather conditions.
- Do not apply on surfaces that are frozen, melting or in danger of rain or frost within 24 hours.

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SURFACE PREPARATION

- Surface bearing and stability should be checked to ensure that the surface is solid and clean.
- The application surface must be clean, smooth and solid. Dust, dirt, paint, oil and free particles must be removed from the surface.
- Rusts on the reinforcement should be removed with a wire brush.
- The application surface should be wetted and kept moist.

PREPARATION OF MIXTURE

- ExperRepair SM 12 is placed in a clean mixing bowl. Then, 4,00-4,50 liters of clean water to be used for the mixture should be added to the bowl slowly and mixed with the help of a mixer (400-600 rpm) until a homogeneous and lump-free mixture is obtained.
- The prepared mixture should be rested for 2-3 minutes before application.

APPLICATION DETAILS

- The mixed material is applied to the surface with a trowel.
- If necessary, the second coat should be applied in the same way.
- The thickness should be maximum 10 mm for surface smoothing applications and maximum 40 mm for chamfer applications.
- The surface should be moisturized for 2-3 days after application.

WARNINGS

- Do not apply in weather conditions below +5°C and above +30°C.
- Avoid application in areas that are frozen, in areas with the risk of freezing within 24 hours, in conditions that may prevent the application or that may damage the surface after application.
- Do not apply on surfaces such as stone, gas concrete, plaster, old painted surfaces.

CONSUMPTION

- 1,90-2,10 kg/m² (for 1 mm application thickness)

EQUIPMENT CLEANING

- Equipment should be cleaned with solvent immediately after use. Cured material can only be cleaned by mechanical means.

STORAGE AND SHELF LIFE

- Should be stored in its unopened original packaging, in a closed, moisture-free, dry environment, protected from frost. Products should not be overloaded in a way to damage their packaging.
- Shelf life under appropriate storage conditions is 12 months from the date of production.

SAFETY PRECAUTIONS

- During use and storage, work clothes, protective gloves and masks should be used in accordance with the rules of Occupational and Labor Health. Eye, mouth and skin contact should be avoided and the contact area should be washed with plenty of water.
- In more dangerous situations or in case of ingestion of the product, a specialist doctor should be consulted immediately. Food and beverages should not be brought into the application areas. Keep out of the reach of children. For detailed information, the Safety Data Sheet (SDS) should be consulted.

PRODUCT LIABILITY

- Güven Madencilik İnş. San. ve Tic. A.Ş., is only responsible for the quality of EXPERAS branded products. All data presented are the result of practical and scientific studies. The manufacturer cannot be held responsible except for the use of the correct products in appropriate areas and conditions.

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LEGAL NOTES

• The information and recommendations for the use of EXPERAS branded products are provided in good faith based on technical knowledge and experience, provided that they are maintained and handled under normal conditions and in accordance with the recommendations. Along with the products, the areas of use and surfaces may vary widely. It is necessary to ensure that the correct EXPERAS branded products are applied on appropriate surfaces and under appropriate conditions. In addition, all information and instructions regarding commercial factors and technical conformity must be strictly followed. The manufacturer cannot be held responsible for any damages and problems that may occur if not complied with. The applicator/user is obliged to make the relevant checks to ensure these details. The specifications of EXPERAS branded products may be changed when necessary. The property rights of third parties must be respected. When the order is confirmed, all existing technical conditions are essential for sales and transportation.

REFERENCE STANDARDS

• TS EN 1504-3/R3 Class