

# ExperRepair EG 21

**COLOR OPTIONS:**

Component A: Cream

Component B: Dark Grey

**6**  
±%2 KG

## Repair and Structural Technical Mortars

**1504-2  
706905**

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

### EPOXY BASED, TWO-COMPONENT, SOLVENT-FREE, REPAIR, ANCHORING AND MOUNTING MORTAR

Epoxy based, two-component, solvent free, thixotropic, repair, anchorage and mounting mortar.

**VERY HIGH  
BOND STRENGTH****THIXOTROPIC****HIGH CHEMICAL  
RESISTANCE**

### TECHNICAL SPECIFICATIONS

Chemical Structure	Component A: Epoxy Resin Component B: Epoxy Hardener
Mortar Density	~ 1,8 kg/lt
Por-Life	Max. 30 Min
Bond Strength	28 days: $\geq 3$ N/mm <sup>2</sup> (EN 1542)
Compressive Strength	28 days: $\geq 60$ N/mm <sup>2</sup> (EN 12190)
Bending Strength	28 days: $\geq 15$ N/mm <sup>2</sup> (EN 196-1)
Full Curing	7 days
Curing Time	15 hours
Consumption	1,60-3,20 kg/m <sup>2</sup> (for 1-2 mm thickness)

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

### ADVANTAGES

- Ready to use and easy to apply.
- Solvent-free.
- Very high bond strength.
- Does not sag in vertical applications.
- Provides high mechanical strength against impacts and abrasions.
- High chemical resistance against water, mineral oils, fuel, various acids and alkalis.
- Water impermeable.

### APPLICATION AREAS

Used as repair, bonding, mounting, chamfering and filler mortar:

- Indoors and outdoors,
- On cement-based surfaces, old concrete and metal surfaces,
- Repair of reinforced concrete structures such as columns, beams and curtain walls,
- Repair of large cracks,
- In ore planting applications in reinforced concrete structures,
- Bonding of concrete elements, ceramics, natural stone, metals such as iron, steel, wood and glass,
- Bonding applications of waterproofing and dilatation tapes,
- Edge, corner hole and gap filling applications,
- Old and new concrete joints,
- For assembly works subjected to heavy and medium loads,
- Installation of bolts and dowels.

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**SURFACE AND APPLICATION CONDITIONS**

- The compressive strength of the application surface must be at least 25 N/mm<sup>2</sup> and the (pull off) strength of the ground concrete must be at least 2,0 N/mm<sup>2</sup>.
- The floor concrete must be cured and the moisture content of the concrete must not exceed 4%.
- The floor temperature must be not less than +8°C and at least +3°C above the condensation point.
- Air temperature should be between +10°C and +30°C during application.
- Relative humidity should not be more than 80% and surface temperature should be between +8°C and +30°C.
- Do not apply on wet, high humidity, frozen surfaces and surfaces with insufficient waterproofing.

**SURFACE PREPARATION**

- Surface bearing and stability should be checked to ensure that the surface is dry, solid and clean.
- Dust, dirt, paint, oil and free particles must be removed from the surface.
- Any water flow should be drained and plugged and the surface should be dry.
- If cracks and cavities are to be repaired, the cracks and cavities should be widened before application, and the edges should be cut as perpendicular as possible to obtain geometric shapes such as square and rectangle. It should then be cleaned with compressed air.
- Rusted parts should be removed from reinforcing bars with a wire brush.
- If necessary, the surface should be primed with ExperPrime epoxy primer.

**PREPARATION OF MIXTURE**

- Before mixing, make sure that the material temperatures are between +10°C and +30°C.
- The A and B components of ExperRepair EG 21 are individually mixed with a low speed mixer until a homogeneous mixture is obtained (on average 3 minutes).
- Component B is then added into Component A and mixed again with a low speed mixer until homogenized (approximately 3 minutes) and ready for use.
- Mixing for too long and at high speed should be avoided to minimize air entrainment.

**APPLICATION DETAILS**

- The mixed material is applied to the surface with a trowel or spatula.
- The maximum thickness for single coat is 30 mm.
- If the primer is adhered before application, mortar application should be made before the primer dries.

**WARNINGS**

- Do not apply in weather conditions below +10°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 add solvent, thinner etc. into the mixture during application.
- Curing times of epoxy resin based products vary depending on ambient conditions. The duration of the chemical reaction varies and so does the working time. Therefore, attention should be paid to these details during application. Under low temperature conditions, the chemical reaction slows down and the working time between layers increases.
- The surface should be protected from direct contact with water for at least 48 hours after the application is completed. Otherwise, carbonation and softening will occur in the area in contact with the water, which will cause the coating to lose its properties. If such a situation occurs, the entire coating should be removed from the floor and the surface should be made ready for reapplication and the application should be carried out again by following the same steps.
- Epoxy and polyurethane based polymeric systems should be applied by specialized applicators.

**CONSUMPTION**

- 1,60-3,20 kg/m<sup>2</sup> (for 1-2 mm thickness)

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### **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.

### **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 1504-2

