

# BAU GRF

**Non-shrinking pourable cast grout for construction of mantle, filling gaps and anchors machinery. Thickness up to 100mm / layer**

## Description

BAU GRF is a single component cement based mortar with special additives, with the addition of water forms a homogeneous non-shrinking grout high strength. According to the requirements of European standard EN 1504-3 Class R4.

## Features – Ideal for:

- Highly early and final strengths
- Equalized tumor of shrinkage
- High resistance to chloride penetration and CO2
- High liquidity
- Easy to use
- Excellent affinity with the concrete and steel
- The final product can receive high mechanical stresses

## Application examples

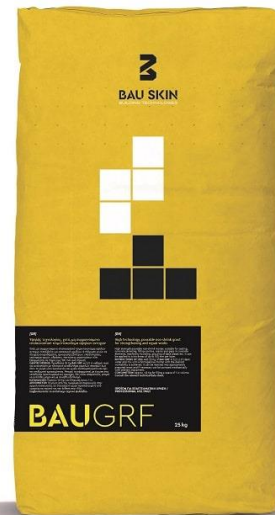
- Repair and manufacturing high requirements in concrete elements
- Structural Strengthening - restoration of damaged concrete in bridges, buildings, tunnels, retaining walls, concrete etc
- Repair of degraded concrete surfaces
- Fills nests, deductibles
- Anchoring and filling with great precision bearing bases for light and heavy machinery such as lathes, machining benches, various kinds of presses, cranes, steel structures, turbines, etc

## Substrate Preparation

Ensure surfaces sufficiently stable. Remove loose detached parts, grease, dirt etc. prepare the substrate with suitable mechanical methods such as high pressure water blasting, sandblasting, etc. It is better to preferred methods without impact or vibration of the substrate. Before applying BAU GRF, the concrete substrate should be wetted with water to saturation. The final application surface should be rough and free of standing water. Regarding minerals clamping - mounting, must be free of rust, paint, grease etc. If the metallic surfaces contaminated with chloride or other substances that can cause corrosion should be cleaned.

## High absorption substrates

For surfaces that have been exposed to strong sunlight during the hot days of summer in the highly absorbent substrates need slight wetting of substrates without stagnant water in order to reduce water absorption and to avoid the rapid dehydration of gypsum. Generally no priming is required.



## Mixture Preparation

BAU GRF is prepared in container, first throwing the required amount (3,25-3,75kg) water and adding the contents of the bag (25kg) gradually stirring using a low speed electric mixer, until it we have a homogeneous mixture.

## Instructions for use

The finished mixture is injected, taking care to avoid air entrapment. Injection should be done in such a way as to ensure that the mortar has filled all the space between the mold and the existing layout.

## Remarks

- Existing mixture must not be soften with water again
- The temperature during application should be between +5 °C and +35 °C.
- Mixing should always be carried out mechanically, by hand because it cannot achieve optimum workability.
- Working the product in direct sunlight and / or strong wind should be avoid .
- Do not add water more than the recommended dosage.
- At low temperatures, the mixing of the material with lukewarm water and protection with thermal insulation covers on the formwork
- Protect fresh mortar from premature drying using appropriate methods maturation

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## Technical features

<b>Form:</b> grey cement
<b>Density of dry mortar:</b> 1,8 kg/l
<b>Density of fresh mortar:</b> 2.20 kg/l
<b>Bending resistance:</b> 2 hours at +20 °C
<b>Compressive strength (EN 196-1)</b> 1 day $\geq 40$ N/mm <sup>2</sup> 7 days $\geq 50$ N/mm <sup>2</sup> 28 days $\geq 60$ N/mm <sup>2</sup>
<b>Flexural strength (EN 196-1):</b> 28 days $\approx 10$ N/mm <sup>2</sup>
<b>Content of chloride ions (EN 1015-1):</b> $\leq 0.01\%$
<b>Adhesion (EN 1542):</b> $\geq 2.0$ N/mm <sup>2</sup>
<b>Modulus of elasticity (EN -13412):</b> $\geq 20$ GPa
<b>Penetration ion cl (EN 13396):</b> $\leq 0.05\%$
<b>Dangerous substrates (Cr6+) (EN 196-10):</b> $\leq 0.0002\%$

## Consumption

Approx 1,8 Kg / volume of 1 Lt

## Package

25 kg

## Storage

Preferably in shady and roofed locations, low in moisture, for at least 12 months in the initial sealed package.

## Precautions – Safety

The product contains cement and characterized irritating. For the application of the product does not require special precautions other than usual that apply to all construction work, such as wearing gloves and glasses, avoid prolonged contact with skin. In case of contact with eyes rinse with plenty of water and if necessary seek the contribution doctor. Gather empty bags, and plastic caps and discard in trash bins Consult the safety instructions found on the product packaging.

## Notes

Technical details, properties, recommendations and information on BAUSKIN products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

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