

US 600

Packing grout mortar

quick-mix
A trademark of **sievert**



Rapid-hardening packing grout mortar for high dynamic and static loads

Exterior plaster acc. EN 1504-6
(applies to US 600-4)

- consistency: zero-slump to weakly plastic
- compressive strength:
 - ≥ 20 N/mm² (24 h)
 - ≥ 40 N/mm² (7d)
 - ≥ 55 N/mm² (28d)
- expansion rate: ≥ 0.1%



APPLICATIONS

- US 600-4: product according to DIN EN 1504-6 “Anchoring of rebar”
- for packing pumps, presses, lathes, precision machinery
- installation thickness:
 - US 600-1: ≤ 20 mm
 - US 600-4: 10-50 mm
 - US 600-8: ≥ 30 mm
- for bracing fire walls, also suitable as a masonry mortar for this purpose
- for application in areas where shrink-free mortar/concrete with high strength is required, which is not poured but can only be packed underneath
- for external and interior use

PROPERTIES

- rapid hardening
- shrink-free
- easy to compact
- frost and de-icing salt-resistant
- good adhesion on concrete and steel

COMPOSITION

- high-quality binders according to DIN EN 197-1
- Mineral aggregates according to DIN EN 12620 (alkali sensitivity class EI)
- Admixtures with general building authority approval
- chloride-free

SUBSTRATE

- Pretreatment**
- Clean the substrate. Remove loose parts, dust, cement slurry, oil and grease.
 - Pre-wet substrate thoroughly, but prevent puddles from forming.

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PROCESSING

Temperature	<ul style="list-style-type: none">■ Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.
Mixing / Preparation / Processing	<ul style="list-style-type: none">■ Mix US 600 as a complete package, depending on grain size (1 mm / 4 mm / 8 mm), with approx. 3.5 / 2.75 / 2.75 litres of clean water in the compulsory mixer for at least 3 minutes.
Applying	<ul style="list-style-type: none">■ The mortar must be introduced without cavities.■ Depending on the grain size suitable for the following packing heights: US 600-1: up to 20 mm US 600-4: 10 to 50 mm US 600-8: from 30 mm
Drying / Hardening	<ul style="list-style-type: none">■ The applied mortar is to be post-treated according to DIN EN 13670 / DIN 1045-3.■ Protect the fresh mortar from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct exposure to driving rain if necessary by hanging with foil.
Cleaning the tools	<ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use.
Notes	<ul style="list-style-type: none">■ Cement and cement-bonded building materials may, under certain conditions, cause a solvent attack on non-ferrous metals such as aluminium, copper or zinc in the area of the bonding.■ The specifications and guidelines issued by the building element manufacturer are to be taken into account.

PACKAGING

- 25 kg/sack

STORAGE

- Store dry and as per instructions.
- Low-chromate for at least 12 months from date of manufacture if stored dry and properly in original sealed package.

QUANTITY REQUIRED / YIELD

- consumption: approx. 19 kg/m² per 10 cm layer thickness
- yield: app. 13 l fresh mortar per 25 kg/sack

TECHNICAL DATA

Grain	0 – 1 mm, 0 – 4 mm, 0 – 8 mm
Processing consistency	earth-moist to weakly plastic
Processing temperature	+5°C to +30°C
Compressive strength	after 24 hours ≥ 20 N/mm ² after 7 days ≥ 40 N/mm ² after 28 days ≥ 55 N/mm ²
Swelling dimension	> 0.1 %

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

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SAFETY AND DISPOSAL INSTRUCTIONS

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| Safety | <ul style="list-style-type: none">■ This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.■ Follow further instructions in the safety data sheet. |
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| GISCODE | <ul style="list-style-type: none">■ ZP1 (products containing cement, low-chromate) |
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| Disposal | <ul style="list-style-type: none">■ Completely empty and recycle the packaging.■ Dispose of the material in accordance with the official regulations. |
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GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.