

HIGH FLOWABILITY

EuroGrout® Vergussmörtel casting mortars are ready-to-use dry mixtures of high-quality cement (DIN 1164 / DIN EN 197), naturally round quartz aggregates (DIN EN 12620, alkali sensitivity class E 1 - harmless occurrence) and approved concrete admixtures (DIN EN 934-4).

EuroGrout® Vergussmörtel grouting mortars are tested according to DAfStb¹ guideline

EuroGrout® Vergussmörtel acc. to DIN EN 1504-6 "Anchoring of reinforcing bars

Application

EuroGrout® Vergussmörtel grouting mortars connect concrete with steel and precast concrete elements with each other in a force-locking, durable and efficient way. For example

- Casting of foundations and superstructures for Wind turbines, generators, compressors, diesel engines and other power equipment exposed to high dynamic loads
- Production of pedestals for high-bay warehouses
- Casting of prefabricated parts in civil engineering such as sluices, back-Holding basins and lifts
- Annular gap grouting for pipe penetrations in concrete construction
- Undermoulding of bases for steel columns and bridge bearings
- Pouring of concrete or steel floor slabs
- Casting of butt and horizontal joints in precast construction and connecting rails in precast elements
- Production of pedestals as supports for tracks and crane rails
- Fixators, Paper plants, chemical plants and refineries

Product Properties

EuroGrout® Vergussmörtel

- depending on the addition of water it becomes a highly flowable swelling mortar, the concrete voids are force-locked and self-levelling closed
- develops high strength and is high after 24 hours loadable (see strength table)
- is frost and de-icing salt resistant, is waterproof and chloride-free
- has a lower screw wear due to natural round quartz grain
- according to DIN 4102 / EN 13501-1 building material class A 1 is not flammable and therefore suitable for fire protection suitable for mortaring
- is low in chromate according to Directive 2003/53/EC and has a approval for the drinking water sector (tested according to DVGW worksheet W 347 and W 270)

EuroGrout® is offered in various grain sizes:

EuroGrout® 01

Grain size 0 - 1 mm for Undergrouting height from 10 to 25 mm

EuroGrout® 02

Grain size 0 – 2 mm for Undergrouting height from 10 to 50 mm

EuroGrout® 04

Grain size 0 – 4 mm for Undergrouting height from 20 to 100 mm

(The minimum distance between two surfaces is decisive for the grouting height). For larger distances or grouting heights

EuroGrout® Vergussbetone casting concretes available

Instructions for Use

1. Preparatory Treatment

EuroGrout® Vergussmörtel grouting mortars are ready for use; only water has to be added. Before grouting, the surface must be thoroughly cleaned and pre-watered to saturation, standing water must be removed. Care must be taken to remove cement slurries; the capillary pores of the concrete must be open.

2. Water Requirements

EuroGrout® 01 max. 14 % water, that means max. 3,50 l water per 25 kg bag

EuroGrout® 02 max. 13 % water, that means max. 3,25 l water per 25 kg bag

EuroGrout® 04 max. 12 % water, that means max. 3,00 l water per 25 kg bag

3. Mixing

EuroGrout® Vergussmörtel is preferably mixed in a compulsory mixer. Smaller quantities can also be mixed in a mortar drum with a slow-running hand mixer. First add 4/5 of the mentioned amount of water to the mixer, then the dry mortar. After mixing briefly for about 2 minutes, add the remaining water if necessary and mix for a further 2 minutes until a homogeneous, flowable consistency is achieved.

4. Notes

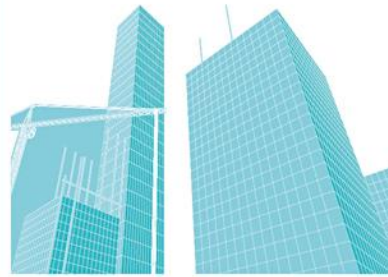
- **EuroGrout® Vergussmörtel** can be grouted manually or can be pumped. Because of the required mixing time (see above) to use batch mixers for machine processing. Machine use, distances, mortar hose lengths and cross-sections must be planned precisely in advance. For this purpose, ask for please contact our advisory service.
- The grouting zones must be firmly shuttered on the outside. Smooth Formwork material facilitates later removal and results in clean visible surfaces.
- To avoid air pockets and to reduce the static pressure of the grouting mortar should be minimised, section by section and can be poured with a filling hose.
- Unloaded projections are not wider than 50 mm to be executed. For dynamically loaded and/or pre-stressed components, it is recommended to use an angle of 45 to be stripped off (triangular strip).

5. Post-treatment

Depending on weather conditions, it may be necessary to protect the joints against water evaporation.

Freshly applied mortar must be protected by suitable means for 3 – 5 days (for example, keeping it moist) against drying out too quickly.

¹ = Deutscher Ausschuss für Stahlbeton „Richtlinie zur Herstellung und Verwendung von zementgebundenem Vergussbeton und Vergussmörtel“ Beuth-Verlag, Berlin



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Technical Data

EuroGrout® Vergussmörtel	01	02	04			
Compressive strength 1, 7 and 28 days	≥ 45 N/mm ² ≥ 75 N/mm ² ≥ 90 N/mm ²	≥ 45 N/mm ² ≥ 75 N/mm ² ≥ 90 N/mm ²	≥ 45 N/mm ² ≥ 75 N/mm ² ≥ 95 N/mm ²			
Bending tensile strength 1, 7 and 28 days	≥ 6 N/mm ² ≥ 7 N/mm ² ≥ 10 N/mm ²	≥ 7 N/mm ² ≥ 8 N/mm ² ≥ 10 N/mm ²	≥ 7 N/mm ² ≥ 8 N/mm ² ≥ 11 N/mm ²			
Pull-out resistance with a load of 75 kN / DIN EN 1504-6	≤ 0,6 mm	≤ 0,6 mm	≤ 0,6 mm			
Early strength class	A	A	A			
Compressive strength class DIN 1045-2 / EN 206-1	C 55/67	C 55/67	C 60/75			
Flow rate class	f2	f2	f2			
Shrinkage Class	SKVM III	SKVM III	SKVM II			
Exposure Classes in accordance with DIN 1045-2 / EN 206-1						
XO	XC	XD	XS	XF	XA	XM*
0	1234	123	123	1234*	123**	123
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Moisture classes in accordance with DIN 1045-2 / EN 206-1	WO WF WA WS					
Expansion 24h	≥ +0,5 percent by volume					
Processing time	approx. 60 minutes					
Processing temperature	+5°C to +30°C					
Building material class	A 1 – DIN EN 13501-1 non-flammable					

*Except for the (German Committee for Reinforced Steel) Directive

**Additional measures necessary (for example, epoxy resin coating)

Consumption

25 kg dry mortar yield about 12,5 liters of wet mortar mix. Approx. 2000 kg of dry mortar is required for 1 m³

Storage

Store in a cool, dry place away from direct sunlight. It is advisable to use the product within 12 months

Packaging

25 kg paper/polyethylene bags

42 x 25 kg = 1,050 kg per exchangeable Euro pallet

Further products

For special applications there are further tried and tested encapsulation P & T mortars and concretes are available:

- **EuroGrout® Armiert** for highly stressed structural parts and heavy duty foundations
- **EuroGrout® HS** for grouting work in the sewage sector
- **EuroGrout® Hochfest** – Strength class C80/95
- **EuroGrout® Super** with short setting time

The technical data stated here are documented in test certificates and are available on request



The products bear the CE mark according to EN 1504-6:2006



EuroGrout® Vergussmörtel is monitored by external, accredited and certified inspection bodies

The product-related technical data in this technical data sheet are based on laboratory values. They have been determined at an application temperature of +20° C. Please be aware that in the values can vary slightly in individual applications. Specified colours correspond to an optical sample print, colour variations cannot be ruled out. We recommend that the suitability of the product for individual applications should be checked before use. The work to be carried out must be performed in accordance with the relevant and at the time of the carrying out valid, recommendations, Directives and DIN/EN Standards and their supplementary data sheets. With the publication of this data sheet, all previous versions shall become invalid. 02/2021