Technical Data Sheet
Art. No. 0445

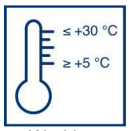
Elastogrout 1K

Flexible, waterproofing grout


For use on floors and walls indoors and outdoors

Dry mortar / Water

Mixing time



Working temperature


Mortar cover / apply with filling knife/trowel

Application rate per mm thick layer

Shelf-life


Protect from moisture!

Range of use

- For flexible waterproofing of buildings (walls and floors) against ground damp, moisture and water pressure, indoors and outdoors
- As a carbonation inhibiting coating on concrete surfaces
- For bonded waterproofing in accordance with ZDB for load classes AO, BO as well as A and B
- For bedding VF Water Stops

Property profile

- Flexible
- Fast setting
- Strong adhesion to the substrate approx. 1.5 N/mm²
- Watertight at 2 bar
- Highly sulphate resistant
- Can be applied as a grout and a filler
- Sets without inherent stress & crack-free

Substrate

Concrete and masonry work with fine-pored surfaces as well as cement surfaces (mortar group P II and P III) are suitable. The substrate must be load-bearing and free of substances that could interfere with adhesion. Close joints, holes and wide cracks first and break off projecting edges.
Coarse-pored substrates (e.g. aggregate particle-pored, lightweight concrete blocks) should be smoothed first with a filler.
Pre-wet highly absorbent substrates. Prime all mineral substrates deeply with Kiesol diluted 1 : 1 with water, using an application rate of approx. 100 g/m².
To avoid blisters, apply a scratch coat of Elastogrout 1 K to the air-dry surface with an application rate of approx. 1000 g/m².

Characteristic data of the product

Grain:	< 0.5 mm
Applications of grout:	at least 2
Waiting time per application (20 °C):	3 to 4 hours
Can be covered with tiles (20 °C):	after 12 hours
Water loads (20 °C):	after 3 days
Crack-bridging:	0.4 mm (2.5 mm thick layer)
Water impermeability:	water pressure tight up to 2 bar
Adhesion in a bond with ceramic covers and tiles:	1.0-1.5 N/mm² with Extraflex

Directions

Pour **4.0 - 4.5 l of water** into a clean container (mortar tub), then add **20 kg Elastogrout 1K**. Mix thoroughly with mixing equipment/mixing tool, e.g. BEBA mixer, or a drill with a spiral mixing tool for at least 3 minutes until the grout is homogeneous and a brushing or filling consistence has been achieved. There should be no lumps of dry powder. If necessary, smaller amounts can be mixed in a ratio of 4.5 part by volume powder + 1 part by volume water.

Surface waterproofing
After the substrate has been prepared, the first layer of grout should always be applied with a brush, applying the fine grout thoroughly and uniformly over the entire surface. The second and each

Remmers GmbH 49624 Löningen Tel 05432/83-0 Fax: 05432/3985 www.remmers.de

further coat is applied in a brushing/filling procedure with a brush or smoothing trowel.
At 20 °C, the second coat is applied at the earliest after 3 hours (when applied to walls) or after 4 hours (when applied to floors), when the first layer of grout will no longer be damaged or applied the next day. To ensure that the waterproofing dries stress-free, do not apply more than approx. 3 kg/m² of grout per working operation.
The maximum total layer thickness is 4 mm.

Waterproofing joints
Corners and connection joints in permanently wet areas (public showers, balconies and terraces) should be bridged with the VF Water Stop System. The water stop is bedded into the first fresh layer of grout, following the course of the joint. For pipes passing through walls and floor openings, integrate Wall Gasket VF.

Notes

Temperature of the air, substrate and building material: +5 °C - +30 °C
Low temperatures lengthen, high temperatures reduce working and setting time. Initially set mortar cannot be made workable again by adding water or fresh mortar.
The characteristic data given for this product were determined under laboratory condi-tions at 23 °C and 50 % relative humidity.

Protect the fresh waterproofing layer from sun, frost, rain and drying out too quickly in wind for one day. After drying at normal temperatures and in normal weather conditions, the waterproofing can be subjected to water loads after 5-7 days. When used in basins / tanks, waiting time is approximately 10 days. The waterproofing is applied to the side the water is on (positive water load). If moisture can act from behind, the substrate must be pre-sealed first with Waterproofing Grout (Art. No. 0405) or Sulfatex Grout (Art. No. 0430).

Protecting the coating
Protect coated surfaces from damage (to ensure functionality). If the waterproofed surface is directly used (foot traffic), a protective layer should be applied to the layer of waterproofing (floor covers in a bond with the waterproofing, masonry work or a protective screed). To increase resistance to chemicals (e.g. for liquid manure basins), the waterproofing (without further coatings) should be subsequently sprayed with Kiesol.

Laying ceramic covers
Ceramic covers can be laid as soon as the waterproofing can be subjected to foot traffic (after approx. 12 hours). The following adhesive mortars can be used:
- Extraflex (2819)
- Flex Cement Rapid (2845)
- Marble Cement (2850)
- Multi-Cement (2856)

Draining channels with a perforated plate edge profile on balconies and terraces are placed in the first layer of waterproofing. Reinforcement Fabric 2.5/100 (Art. No. 4176) is worked in, wet-on-wet, to stabilise.

Tools, cleaning

Beba BO 50 or similar mixing equipment, brush, smoothing trowel, grout broom, filling knife. Clean tools and equipment with water while the material is still fresh.

Possible system products

- Kiesol (1810)
- Multi-Cement (2856)
- Flex Joint (2891, 2899)

Packaging

20 kg paper bags

Application rate

Ca. 1,5 kg/m²/mm thick layer

Execution of waterproofing
Load groups:
Minimum layer thickness (mm) / total application rate grout (kg/m²)

Load group	Dry layer thickness (mm)	Application rate (kg/m²)
Ground damp and moisture	≥ 2.0	≥ 3.6
Water reservoirs with a water depth up to 8 m	≥ 2.5	≥ 4.5

Application rates for levelling and scratch coats must be calculated separately.
When applied by hand, application rates may increase by approx. 1 kg/m².

Shelf-life

At least 12 months stored dry in closed bags.

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology is found in the latest Safety Data Sheet.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

REMMERS
Baustofftechnik GmbH
49624 Löningen
P-5258/8964
P-5269/9074
Materialprüfanstalt für das Bauwesen
Braunschweig

Remmers (UK) Limited Crawley
United Kingdom
Tel: +44 (0) 1293 594 010
Fax: +44 (0) 1293 594 037
www.remmers.co.uk