

Top properties

✓ Tough elastic

✓ Standard-compliant joint closure

✓ High flank adhesion



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The use of our ROMEX® - ISATEC® system solution is underpinned by the precise statements on the use of additional displacement safety devices, which are included in the MFG/2014 regulations and published with the addition „R2“ - state of the art.



ISATEC® - FLEX

Tough-elastic joint seal

Flexibilized 2-component epoxy resin system

ISATEC® - FLEX is the first and only standard-compliant, viscoplastic 2-component special joint grout on the market. With optimum functional properties and a maximum elongation of 9.9 %, the material can be used as a joint seal for unbonded construction. The special joint grout follows the movements of the pavement that occur in unbound construction. The high flank adhesion virtually eliminates flank cracking. To secure traffic areas subject to particularly high loads and prevent displacement, the joint seal is installed in combination with ISATEC® - STOP displacement protection. ISATEC® - FLEX is a special joint grout in accordance with the „ Fact sheet for concrete slab coverings 2021“, the SLG.

Properties

- No weed growth
- Highly water-permeable
- Frost and de-icing salt resistant
- Resistant to high-pressure cleaners
- Resistant to street cleaning vehicles
- Firm to walk on
- Can be applied in drizzle

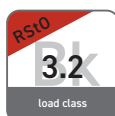
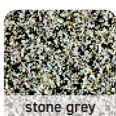
Important note: To achieve optimal flowability, ISATEC® - FLEX should be mixed using a high-speed mixer, ideally in a forced-action mixer.

Areas of application

- Joint widths from 5 mm
- Surfaces with traffic loads in combination with ISATEC® - STOP up to Bk3.2 (RSt0)
- Joint closure for the upper 3 cm
- Public areas
- Squares, roads and paths
- For the unbound construction method
- Concrete blocks and slabs
- Paving and natural stone surfaces

Technical data

Deflection at breaking load:	11,8 mm
Bending tensile strength:	1,28 N/mm ²
Static modulus of elasticity:	14 N/mm ²
Weathering rate (CDF test):	25 g/m ²
Solid mortar bulk density:	1,41 kg/dm ³
Path to maximum power:	15,8 mm
Water permeability:	6,6 × 10 ⁻⁵ m/s approx. 0,4 l/min/m ²
Shelf life:	12 months
Storage:	frost-free and dry, protect from direct sunlight



ROMEX®

CONSTRUCTION SITE REQUIREMENTS

Planning: The substrate should be constructed in accordance with the expected traffic load. The regulations and information sheets for the construction of paved surfaces must be observed. Subsequent loads must not result in settlement of the surface or loose stones. The joint material cannot absorb any settlement. ROMEX® SYSTEM GUARANTEE (RSG). The use of ROMEX® processing tools is recommended for optimum processing.

Preparation: Clean joints to a depth of at least 30 mm (minimum joint width 5 mm). The surface to be grouted must always be cleaned of all types of dirt before grouting. Adjacent surfaces that are not to be grouted are masked off.



APPLICATION

Pre-wetting: Pre-wet the surface intensively and keep it constantly damp. Avoid standing water in the joints. Absorbent surfaces and higher substrate temperatures require more intensive pre-wetting.

Mixing: Open the bucket, open the bottles inside and add the contents completely to the filler component. To fully utilize the contents of the bottles, both bottles should be rinsed out with water. To do this, fill each of the two previously emptied resin/hardener bottles with 100 ml of water, close, shake vigorously and add the contents of the bottle to the mixture. Start the mixing process. Do not add any more water! Total mixing time: At least 6 minutes. Use a professional whisk or free-fall/compulsory mixer.

Application: Pour the ready-mixed pavement jointing mortar onto the pre-wetted surface and work it carefully into the joints using a rubber squeegee. To make optimum use of the flowability of the pavement jointing mortar, pour the mortar in three to four places in the jointing area. If the ready-mixed mortar is not fully used immediately, the remaining quantity should be mixed again briefly within the specified working time before it is used again, so that optimum flowability is achieved again.

Practical tip: Tools and work shoes should be cleaned regularly with a jet of water during grouting to avoid soiling from binding agents and footprints on the stone surface.

Final cleaning: After approx. 10-15 minutes, first carefully sweep the stone surface with a coarse street broom and then give it a final clean with a fine hair broom until all mortar residue has been removed. Chamfers on slabs and clinker coverings must be exposed, as sufficient adhesion is not guaranteed. The correct sweeping time is reached when white streaks no longer form on the stone surface when sweeping. Sweep diagonally to the joint. Material that has been swept off is no longer used.

Rain protection: No rain protection is necessary in drizzle. In the event of continuous or heavy rain, the freshly grouted surface must be protected from rain for 12-24 hours. The rain protection (construction foil/covering tarpaulin) must not be placed directly on the surface to allow air to circulate.

Application data:

Application time at 20 °C: approx. 20–30 min.

Application temperature: 7–30 °C
Low temp. » slow curing
High temp. » fast curing

Release of the surface at 20 °C: Can be walked on after 24 hours, fully loadable after 7 days

Consumption kg per 1 m²: Basis of calculation: joint depth Ø 30 mm							
Joint width	stone size	80 × 40 cm	60 × 60 cm	40 × 40 cm	32 × 24 cm	24 × 16 cm	9 × 11 cm
	5 mm (min.)	0,8 kg	0,7 kg	1,2 kg	1,5 kg	2,1 kg	3,9 kg
	10 mm	1,5 kg	1,4 kg	2,0 kg	2,9 kg	4,0 kg	7,0 kg

IMPORTANT NOTES

Weather: Unfavorable weather conditions can negatively affect the result of your processing. We strongly recommend that you read and check product labels, processing instructions and climatic restrictions before starting your project. Very hot, cold or wet weather requires planning and additional equipment and measures if necessary. Application in cold and/or humid conditions, with low temperatures and high humidity, will extend the curing time and increase the risk of white discoloration of the surface. If necessary, warm the surface overnight or immediately before grouting. Protect the surface with a suitable masking and heating solution for at least 24 hours after grouting.

Synthetic resin film: During the initial period, a wafer-thin synthetic resin film may remain on the stone surface, which intensifies the color of the stone and protects it from soiling. However, this film disappears over time if the surface is exposed to the weather and through abrasion. A synthetic resin film does not constitute a defect in workmanship and does not impair the functionality of the surface. If in doubt, we recommend creating a sample surface.

Occupational safety: When working, the use of impermeable and durable protective gloves, tight-fitting safety goggles and protective work clothing is recommended.

Cleaning and maintenance: Tools can be cleaned with water immediately after grouting. Clean joints 1-2 times a year to ensure good water permeability in the long term.

GENERAL INFORMATION

Explanations: Water permeability as defined in the 2013 edition of the „ Information sheet for infiltration-capable traffic areas“ (MVV) with a joint ratio of 10 %. Usage demarcation, usage category and load classes indicate the load-bearing capacities for standardized substructure and superstructure according to German standards in accordance with RStO 12, ZTV-Wegebau, DIN 18318. The joint may sand slightly due to the raw material. All fillers are natural products which may show natural color variations.

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