FLEX JOINT

Polymeric Sand

ROMEX

Installation Guide

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ROMPOX® - FLEX-JOINT

The viscous elastic pavement jointing mortar

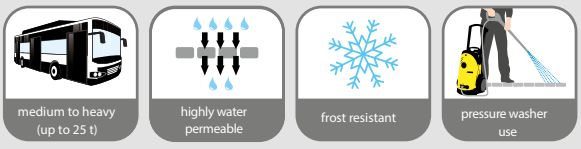
ROMPOX® - FLEX-JOINT is a 2-component pavement jointing mortar, suitable for surfaces with joint widths from 5 mm | ¼" and joint depths from 30 mm | 1 ¼" and medium traffic loads. It is the first and only viscous elastic jointing mortar on the market. Based on it's maximum expansion of 9.26 %, the material can be used on bonded and un - bonded construction. The jointing mortar is water permeable, self compacting and water emulsifiable. ROMPOX® - FLEX-JOINT also prevents all weed growth. In order to protect areas with high traffic loads and to prevent displacement, ROMPOX® - FLEX-JOINT is used in combination with ISAT ec® displacement protection devices.

Properties

- for joint widths from 5 mm | ¼"
- for joint depths from 30 mm | 1 ¼"
- for bonded and unbonded construction methods in combination with ground anchors up to 25 t loads
- weed & ant resistant
- can be applied during drizzle
- *ROMEX® recommendation for usage category N3 and in load class Bk 0.8–3.2 as a joint seal in the unbound construction

Bk 0.8–3.2*
load class in accordance with RStO 12

N3*
usage category



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APPLICATION

Construction site requirements: The foundation needs to be prepared according to the expected traffic loads. Regulations and leaflets regarding construction of paved stone surfaces should be heeded. Future loads must not cause the surface to settle or loosen stones. Ideally, you would use the ROMEX ® SYSTEM-GUARANTEE (RSG). For optimum application it is recommended using ROMEX ® application tools.

Preparation: Clean out joints to a depth of at least 30 mm | 1 ¼" (in case of traffic loads ⅔ of stone height, minimum joint width 5 mm | ¼"). The surface to be joint-fixed should be cleaned of all impurities before work commences. Adjoining surfaces that are not to be joint-fixed are taped off.

Pre-wet: Pre-wet the surface. Porous surfaces as well as higher surface temperatures, require more intense pre-wetting.

Mixing: Open the bucket, open bottles within and pour the contents completely into the filler material component. In order to fully use the contents of the bottle, both bottles should be rinsed with water. To do this, fill up the two previously emptied resin/hardener bottles with 100 ml | 0.025 gal of water, close, shake vigorously and add the contents of the bottle to the mixture. Start the mixing process. Do not add water! Total mixing time: at least 6 minutes. Use professional agitator or rotary-drum mixer / compulsory mixer.

Application: Apply the mixed pavement jointing mortar onto the well moistened surface and work it carefully into the joints using a squeegee/rubber slider. The mortar is poured out at three or four spots within the jointing area in order to make best use of the fluidity of the pavement jointing mortar. If the ready mixed mortar is not used up straight away, before continuing with application and remaining within the stated application time, mix the remaining mortar through again briefly to ensure it has optimum flow capability. All tools as well as work shoes should be regularly cleaned with a water spray during jointing, to avoid impurities by binding agent and footprints on the stone surface.

Final cleaning: After approx. 10 minutes the excess mortar on the surface of the stones can be swept off carefully with a large, coarse broom. Then use a soft, hair broom to do a final cleaning until all residual mortar has been removed from the surface. The correct moment for sweeping, is when white smears no longer form on the stone surface during sweeping. Sweeping should be done diagonally to the joint. Do not reuse swept off material.

Subsequent treatment: Rain protection is not necessary during drizzle. In case of permanent or heavy rain, the freshly jointed surface should be protected for 12–24 hours. Do not put the rain protection directly onto the surface, to ensure air circulation.

Important note - resin film: During the initial period a very thin film of epoxy resin remains on the stone surface and intensifies the colour of the stone and protects it from dirt. The resin film is temporary and will disappear over time due to weathering and abrasion. In case of uncertainty, a sample surface should be tested before the entire jointing is done. A resin film does not constitute an "application fault" and the quality of the surface is not compromised in any way. For further information please take note of the ROMEX ® compendium.

Technical data

System	2-component epoxy resin pavement jointing mortar	
Deflection at breaking load *2, *3	12.6 mm | 0.496 " Laboratory value	DIN EN 1015-11
Bending tensile strength *2	1.2 N/mm² | 174 psi Laboratory value	DIN EN 1015-11
Hard mortar raw density	1.34 kg/dm³ | 0.77 oz/in ³ Laboratory value	DIN EN 1015-10
Tensile strength	0.295 N/mm² | 43 psi Laboratory value	DIN EN 527-1
Max. expansion ε	9.26 % Laboratory value	DIN EN 527-1
Application time at 20 °C | 68 °F	20–30 minutes	ROMEX ® -norm 04
Application temperature	> 7 °C up to max. 30 °C | > 44,6 °F up to max. 86 °F At lower temperatures slow hardening, At high temperatures quick hardening	
Re-opening of surface at 20 °C | 68 °F	after 24 hours can be walked on, after 7 days fully load bearing	
Water permeability coefficient*	16.29 × 10 -5 m/s ≙ approx. 1,6 l/min/m ² for a joint fraction of 10 % 23.1 iph ≙ approx. 0.04 gal/min/sqft for a joint fraction of 10 %	
Storage life	12 months resin/hardener components: frostfree, filler components: dry	

Consumption table in kg/m² | lb/sq ft - Basis of calculation: joint depth Ø 30 mm | 1 ¼"							
Joint width	Stone size	80 × 40 cm 31 ½" × 15 ¾"	60 × 60 cm 23 ½" × 23 ½"	40 × 40 cm 15 ¾" × 15 ¾"	32 × 24 cm 12 ½" × 9 ½"	24 × 16 cm 9 ½" × 6 ¼"	9 × 11 cm ⅜" × ⅜"
	5 mm | ¼" (min.)	0,8 kg 1.7 lbs	0,7 kg 1.5 lbs	1,0 kg 2.2 lbs	1,5 kg 3.2 lbs	2,1 kg 4.5 lbs	3,8 kg 8.4 lbs
	10 mm | ⅜"	1,5 kg 3.3 lbs	1,3 kg 3.0 lbs	2,0 kg 4.3 lbs	2,8 kg 6.2 lbs	3,9 kg 8.6 lbs	6,9 kg 15.2 lbs
	Polygonal slabs	We recommend ROMPOX ® - D1					

All filler materials are natural products which are subject to natural colour deviations. The information printed in this brochure is based on experiential values and the current levels of knowledge in science and practice, however they are not binding and have no legal force. All previous information becomes invalid with the issue of this brochure. Images similar. Effective April 2018. We reserve the right to make changes.

* Water permeable according to „Leaflet on surfaces that allow for seepage" (MVV), Issue 2013.
*2 tested in 3 point bending tensile test according to DIN EN 1015-11, Distance between supports: l = 100 mm
*3 in the middle of sample

Further information, films and consumption calculator can be find at https://romexcanada.com/customer-tools

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ROMEX® PERMEABLE HARDSCAPES