



# ROMPOX® - D1

## The proven pavement jointing mortar

Our proven 2-component pavement jointing mortar ROMPOX® - D1 is a real allrounder. Thanks to its strong pouring capacity, it can be used for joint widths from 3 mm | 1/8". That makes D1 ideal for jointing polygonal slabs and crazy paving, that are often difficult to joint because of uneven edges and often conical running joints. This paving joint mortar can be used without problem in driveways and entryways, as it can withstand loads of up to 7.5 tons. ROMPOX® - D1 is also very good for use in repairing old paved stoned surfaces around the house.



### Properties

- joint widths from 3 mm | 1/8"
- joint depths from 30 mm | 1 1/4"
- ideal for polygonal slabs
- best flow capability
- self compacting
- water emulsifiable
- frost and de-icing salt resistant
- highly water-permeable



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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 ROMEX® Trass-Bed products as well as 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 3 mm | ⅛"). With a slab thickness less than 30 mm, bonded laying methods should be used and the whole joint filled completely with ROMPOX® - D1. 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 bags:** Pour the 25 kg | 55 lbs filler components into the mixing tub and start the mixing process. Whilst mixing, slowly add the separately packaged 2.5 kg | 5.5 lbs resin/hardener component completely into the mixture. 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 0.5 litres | 0.13 gal of water, close, shake vigorously and add the contents of the bottle to the mixture. After mixing for 3 minutes add 3 litres | 0.8 gal of water and continue mixing well for at least 3 minutes. Use professional agitator or rotary-drum mixer / compulsory mixer.

**Mixing bucket:** 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 250 ml | 0.13 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. 10–15 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:** The freshly jointed surface needs to be protected against rain for the next 12–24 hours. The rain protection layer must not be laid directly onto the paved surface, to ensure sufficient 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

Test report, audited colour „neutral“, goods in bags.		
System	2-component epoxy resin pavement jointing mortar	
Compression strength	25.8 N/mm <sup>2</sup>   3 742 psi Laboratory value 16.6 N/mm <sup>2</sup>   2 408 psi Building site value	DIN 18555 part 3
Bending tensile strength	12.0 N/mm <sup>2</sup>   1 740 psi Laboratory value 7.9 N/mm <sup>2</sup>   1 145 psi Building site value	DIN 18555 part 3
Static elasticity module	8 000 N/mm <sup>2</sup>   1 160 302 psi Laboratory value 2 180 N/mm <sup>2</sup>   316 182 psi Building site value	DIN 18555 part 4
Hard mortar raw density	1.68 kg/dm <sup>3</sup>   0.97 oz/in <sup>3</sup> Laboratory value 1.43 kg/dm <sup>3</sup>   0.83 oz/in <sup>3</sup> Building site value	DIN 18555 part 3
Application time at 20 °C   68 °F	20–30 minutes	
Application temperature	> 0 °C up to max. 30 °C   > 32 °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 6 days fully load bearing	
Water permeability coefficient*	7.5 × 10 <sup>-4</sup> m/s ≈ approx. 2.3 l/min/m <sup>2</sup> for a joint fraction of 10 % 106.2 iph ≈ approx. 0.06 gal/min/sqft for a joint fraction of 10 %	
Storage life	24 months resin/hardener components: frostfree, filler components: dry	

Consumption table in kg/m <sup>2</sup>   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 ¾" × ¾"
	3 mm   ⅛" (min.)	0,5 kg 1.1 lbs	0,4 kg 1.0 lbs	0,7 kg 1.4 lbs	1,0 kg 2.1 lbs	1,3 kg 3.0 lbs	2,5 kg 5.6 lbs
10 mm   ⅜"	1,6 kg 3.5 lbs	1,4 kg 3.2 lbs	2,1 kg 4.6 lbs	3,0 kg 6.6 lbs	4,2 kg 9.2 lbs	7,4 kg 16.2 lbs	
Polygonal slabs	approx. 4–6 kg   8–13 lbs						



Further information, films and consumption calculator can be find at [www.romex-ag.de](http://www.romex-ag.de)

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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 June 2020. We reserve the right to make changes.

\* Water permeable according to „Leaflet on surfaces that allow for seepage“ (MWV), Issue 2013.

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