

INSTALLATION SYSTEM FOR EXPANSION JOINTS

Edition : 2020



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Installation Process:

- **Stage 1**

Preliminary cleaning of the edges using a suitable OTTO CLEANER cleaning agent and a soft cloth. The edges must be free of dirt, dust, and grease.



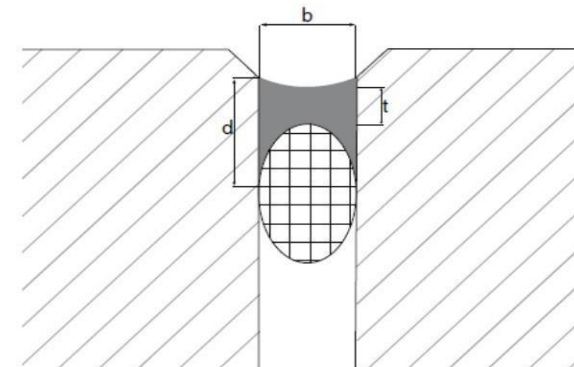
- **Stage 3**

Prime the edges with the appropriate **OTTO Primer 1216** 250ml primer from **OTTOCHEMIE** using a soft brush for absorbent surfaces or a soft cloth for non-absorbent surfaces .



- **Stage 2**

"Pre-filling" the joint with the appropriate rod using **OTTOCHEMIE OTTO PE backup foam rod** in the appropriate size. The size must be selected so that it fits into the joint. The ideal ratio of width to depth of a joint is very important for its durability. Most joints created in projects have a large depth that must be reduced. This is achieved by using **OTTOCHEMIE OTTO PE backup** foam rod closed cell cord. The diameter of the cord is so large that some pressure is required to insert it into the grout and keep it inside, maintaining its oval shape. Sharp objects should not be used to insert the cord into the grout in order to avoid breaking the closed cells.



- **Stage 4**

If there is not enough depth to use the rod in shallow joints, then a PE (polyethylene) separating sheet must be placed at the bottom to prevent the sealant from adhering at three points. The adhesion surfaces, i.e. the two sides to be joined with the sealant, must meet the construction and functional requirements. The sealant must be able to move freely between the edges of the grout in order to absorb the movements of the two parts. This is why the sealant must remain free to move from its underside -meaning, the third contact surface. If this is not done, cracks appear in the corners, causing the sealant to tear completely or lose its adhesion.

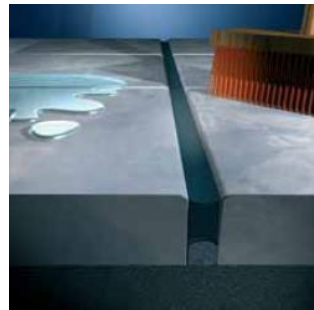
- **Stage 5**

Fill a clean container with **OTTO smoothing agent X-GL 250ml** so that you can moisten the **OTTO scraper** for grout treatment. After moistening the **OTTO scraper**, press vertically, pulling off the excess material. The excess material is cleaned off the scraper into a waste container. Moisten the scraper again and pull it over the grout again to give it a perfect shape.

Note: Always use **OTTO Marble smoothing agent X-GLM 250ml** when applying sealant to marble or natural stone.

We take care to ensure that the joints we create during grinding are not concave. Only the appropriate cross-section of the trowel can guarantee this.

OTTO scraper



Consumption tables

These values are approximate and serve as an initial guide for correct grouting. The depth of the grout is measured to the rear of the profile. Depending on the application method, calculate up to 25% more product.

Measures per 300/310 ml - cartridge

Width grout in mm ➤ Depth grout in mm ▼	5	7	10	12	15	20	25
5	12	8	6				
7		6	4	3			
10			3	2,5	2,0	1,5	
12				2,1	1,7	1,2	1,0
15					1,3	1,0	0,8

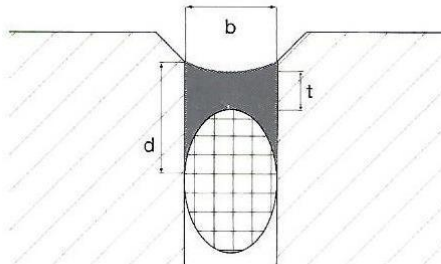
Measures per 400 ml aluminum package

Width grout in mm ➤ Depth grout in mm ▼	5	7	10	12	15	20	25
5	15	10	8				
7		8	5	4			
10			4	3	2,6	2,0	
12				2,7	2,2	1,6	1,3
15					1,7	1,3	1,0

Measures per 580 ml aluminum package

Width grout in mm ➤ Depth grout in mm ▼	5	7	10	12	15	20	25
5	23	15	11				
7		11	7	6			
10			6	5	4	3	
12				4	3	2,4	2
15					2,5	1,9	1,4

Generally accepted grout dimensions



Empirical rule for calculating grout dimensions : Depth of sealant (t) = 0.5 x grout width (b) The thickness of the sealant (d) is equal to 2/3 of the grout width (b)

These minimum grout widths also apply to internal connecting grouts with sealants with > 15% of the joint width (b) and depth (t) must be as described below:

Width grout b in comparison with depth t

b	10-15	15-20	20-25	25-30	30-35 mm
t	8±2	10±2	12±2	15±3	15±3 mm

Source: Industrieverband Dichtstoffe e.v/ hs pr. For further information, please refer to the ivd information

brochures on the website www.ivd-ev.de.