

PAGEL®-JOINT FILLER GROUT

FM10

PROPERTIES

- Expansion-controlled joint filling mortar with a soft and plastic consistency, for ease of application, that develops high creep strengths inside the filled building joint
- Easy to prepare and apply, simply **mix with water**
- Develops **high early and final strengths**
- **Aggregate** 0-1 mm
- **Water-impermeable**, largely impervious to oil and inhibits corrosion
- Certified to fire protection class A1 as specified by **EN 13501** and **DIN 4102**
- Produced in compliance with all relevant applicable standards and directives. Produced and certified to ISO 9001
- Can be pumped using commercial spiral pumps, and pumped optimally if the pump's delivery rate can be infinitely varied to match the joint profiles
- Frost and deicing-salt resistant

FIELDS OF APPLICATION

- For filling the joints between precast reinforced concrete part with and without all types of joint profile and wire rope loop connecting elements
- For filling **building joints**, groves and hollow spaces
- For injecting into and filling overhead **anchor holes**

Exposure class according to:
DIN 1045-2 and EN 206-1
PAGEL – JOINT FILLER GROUT

	XO	XC	XD	XS	XF	XA
	0	1 2 3 4	1 2 3	1 2 3	1 2 3 4	1 2 3
FM10	•	••••	•••	•••	•••	••



TECHNICAL DATA		
TYPE		FM10
Aggregate	mm	0-1
Maximum permissible amount of water (+5, +20, +30°C)	%	14
Consumption	kg/dm ³	1.9
Max. time for application at 20°C	min.	app. 60
Fresh mortar density	kg/dm ³	2.1
Expansion	Vol. %	0.4
Compressive strength	1 d N/mm ²	≥ 20
	7 d N/mm ²	≥ 50
	28 d N/mm ²	≥ 65
Bending strength	1 d N/mm ²	≥ 4
	7 d N/mm ²	≥ 6
	28 d N/mm ²	≥ 8
E-Modul (static)	28 d N/mm ²	33,200

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.

Storage:	9 months in a dry location and sealed bags
Packaging:	25-kg bag
Hazard class:	Non-hazardous material Please observe the instructions provided on the packaging
Giscode:	ZP1, low chromate, compliant with TRGS 613

APPLICATION

SUBSTRATE: The concrete base must be prepared in such a way as to enable the filler grout and concrete surfaces to form a strong and permanent bond. To do so, all of the contact surfaces must be of uniform strength and free from any separating substances. The concrete contact surfaces must have a bond strength of ≥ 1.5 N/mm² on average. The ready-prepared contact surfaces must be pre-wetted to capillary saturation.

Substrate/Contact areas Joint profiles

Remove all loose materials from within and around the joint and degrease the joint profile's contact surfaces, if necessary. Before filling, adjust and fasten existing connecting elements. The inner sides of the joint profiles do not have to be pre-wetted.

MIXING: The mortar is supplied ready for use and only needs to be mixed with water. To do so, add all of the water, with the exception of a small residual amount, into a clean and suitable mixing vessel. Add the residual water once the dry mortar has been added and mixed for approx. 3 minutes and mix for another 2 minutes.

APPLICATION: The grout is designed for direct manual application or for application using a suitable spiral pump. The rear of the joints between precast concrete parts must be sealed using suitable sealing materials (e.g. planking, strips of polystyrene, PU sealing cord). The rear of the joints can also be sealed using FM10 PAGEL-JOINT FILLER GROUT if the joints are not going to be pointed using non-shrink grout. The sealing elements can be removed again and re-used as soon as the joints have been filled. The joint profiles are filled by working from the bottom to the top and always leaving the grouting nozzle inside the grout that has just been filled, as a result of which it pushes the grout upwards. This ensures that any connecting elements and wire rope loops - where used - are optimally embedded into the grout.

1" and 3/4" pipe adapters make extremely efficient grouting nozzles and are simply pressed into the oval mould in order to insert them into the joint. To fill the joint, only insert the nozzle into the very top of the joint and alternately aim it at the joint's two outer sides. Delivery hose: Minimum diameter of 25 mm when using a hose with a max. length of 40 m. Compatible grout pumps: Putzmeister Strobl Strobot 406S, M-TEC Speedy P15V (only 380 V), Mader WM Mini. Compatible mixing and delivery pump: M-TEC Duo 2000

CAUTION: Exposed surfaces must be protected from wind, draughts and premature water evaporation using, e.g. sheeting or O1 PAGEL-EVAPORATION PROTECTION. The additional information provided in the technical data sheet for O1 PAGEL-EVAPORATION PROTECTION must also be observed if used in low temperatures, if exposed to direct sunlight or wind. Please contact our customer service department in the event the joints will be exposed to frost. Exposure to low temperatures during processing will cause the grout to take longer to reach its strength and will affect the material's consistency. Higher temperatures will accelerate the grout's hardening and also affect the material's consistency.

FINISHING TREATMENT: Depending on weather conditions, it might be necessary to protect the joints from premature water evaporation or being washed out by rain. Any such measures must comply with the specifications detailed

The information provided in this leaflet, is supplied by our consulting service and is the end result of exhaustive research work and extensive experience. They are, however, without liability on our part, in particular with regard to third parties proprietary rights, and do not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. The data presented was derived from tests under normal climate conditions according to DIN 50014 and mean average values and analysis. Deviations are possible when delivery takes place. Given that recommendations may differ from those shown in this leaflet written confirmation should be sought. It is the responsibility of the purchaser to ensure they have the latest leaflet issue and that its contents are current. Our customer service staff will be glad to provide assistance at any time. We appreciate the interest you have shown in our products. This technical data sheet supercedes previously issued information. Please find the latest leaflet issues at www.pagel.com.



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