

PAGEL®-GROUT



PROPERTIES

- **high flowability** for at least 90 minutes
- **controlled expansion** with a rigid bond
- **low development of warmth**
- **low modulus of elasticity**
- **resistant to freeze/thaw cycles**
- **pumpable** and easy to pour – also when using mixing and conveying pumps
- **easy to pour**, need only be mixed with water
- **controlled volumination**
- **water-impermeable**, largely impervious to oil, delays the corrosion process
- **externally tested** and factory quality control according to the "Merkblatt für Vergussmörtel" ("Leaflet for Grouts") (DBV)
- "Allgemeine bauaufsichtliche Zulassung" (General Constructional Permission)
PAGEL-ADDITIVE-CONCENTRATE
- is subject to **constant controlling** in accordance with the recognized standards and guidelines.
Product is certified in accordance with ISO 9001.

FIELDS OF APPLICATION

- rigid joint grouting to connect concrete parts with PFEIFER®-VS®-BOX system elements
- grouting of tensile-and transverse-force stressed and strained prefabricated joints in connection with PFEIFER®-VS®-BOX
- grouting of connections with:
 - PFEIFER® column base system connection of prefabricated columns with concrete foundation
 - PFEIFER® wall shoe system connection of prefabricated walls with base plates and/or diaphragms


VS®
US



TECHNICAL DATA			
TYPE			VS®
grain size	inch		0-0.2
grouting height	inch		0.79 - 3.94
quantity of water	%		10-12
consumption	lbs/ft³		124.86
slump (without stroke impact)	inch		12.2
processing time (676 °F)	min.		> 120
flowability		inch	27,56
	after 60 min.	inch	26,77
measure of extension	24 h	Vol. %	+ 0,1
	28 d	Vol. %	+ 0,1
compressive strength (DIN 1164)	1 d	PSI	6,380
	3 d	PSI	9,570
	7 d	PSI	9,570
	28 d	PSI	14,210
	90 d	PSI	15,080
bending strength	1 d	PSI	870
	3 d	PSI	1,160
	7 d	PSI	1,305
	28 d	PSI	1,450
	90 d	PSI	1,595
e-module (cylinder)	28 d	PSI	5,104,000

Technical product dates refer to the medium amount of water of 11 %.

Storage: 9 months in well sealed bags, dry
Packaging: 25 kg bags
Hazard class: No dangerous substance, observe safety data sheet
Additive: General Construction Permission No. Z-3.21-1461
 Corresponding Certificate No. 219000

 CE-Mark and EG conformity in accordance to EN 934-4:2002:02
 Reg.-No.: 0921-BPR-2010
 Additive for concentrate in accordance EN 934-4:T2



butt joint of two walls wall connection butt joint and wall connection wall and ceiling connection

PROCESSING

SURFACE: Pre-wet prepared concrete contact surface fitting joint formwork and/or just before grouting the joint itself. Having company manufactured prefabricated steel concrete parts one can assume that no cement slurry and/or other substances acting separating are existing. Should this be contrary to expectations be the case possible soiling must be removed from the contact surface of the joint sides by means of suitable measures before fitting the joint formwork.

JOINT FORMWORK: Prefabricated wall elements normally are put together with a gap of 0.79 inch. After the VS® 100PS have been connected with a concrete round re-bar suitable formwork is to be fitted to the wall joints. Depending on the height of the wall grouting takes place in two grouting processes (see separate leaflet regarding application).

MIXING: VS® PAGEL®-GROUT is mixed in a compulsory mixer. To produce the mixture approx. 2/3 of the maximum allowed quantity of water is filled into the compulsory mixer, add the dry mortar and mix for about 3 minutes. Then fill in the remaining water and mix for another 2 minutes. Grouting then should take place immediately.

GROUTING: Place the mixed grout in one continuous pour till the desired filling height is reached.

VS® PAGEL®-GROUT can be applied by using a pipe-funnel-system. When grouting large areas we suggest to use an open conveying system with worm gearing (ask for our separate leaflet regarding application).

CAUTION: After formwork removal joints must be protected against evaporation (keep wet, O1 PAGEL®-EVAPORATION AGENT).

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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