www.superbeton.su (495) 648-52-04





PAGEL-CONCRETE-GROUT

PROPERTIES

- V80 C45 (0-8mm) concrete-grout V160 C45 (0-16mm) concrete-grout
- Grout for concrete bases of a strength class comparable to C20/25 or C25/30 or above
- · Cementitious and chloride-free
- Low modulus of elasticity
- · Low heat generation of hydration
- Frost and deicing-salt resistant: CDF tested in compliance with DIN CEN/TS 12390-9 CIF tested in compliance with the BAW Data Sheet on Frost Testing
- Controlled and even expansion
- Impermeable to water and largely resistant to oils and fuels
- Certified to fire protection class A1 as specified by EN 13501 and DIN 4102
- Suitable for pumping with a PABEC IV feed pump; suitable for mixing and pumping with a PABEC II machine
- Complies with the DafStb Directive (VeBMR) on the "Manufacture and use of cementitious concrete and grout"
- Externally tested and factory quality controlled in compliance with the DafStb VeBMR Directive
- monitored in accordance with standards and directives currently in force, production is cetified in accordance with **ISO 9001**

FIELDS OF APPLICATION

- · columns and machines
- Hydraulic structures, sluices and weir systems
- Steel structures for hydraulic engineering
- When using large quantities of grout and if there is a simultaneous drop in hydration temperatures
- Grout compliant with the BAW's second concrete Directive
- noise prevention walls
- supporting of buildings
- Repair grout for structural repairs (apply for ZiE or UiG)

Assigning to expositioncategory according to: DIN 1045-2 / EN 206-1 PAGEL – GROUT

X0 V80 C45 0				XF 1 2 3 4		
V160 C45 •	• • • •	• • •	• • •	• • • •	• •	• •





V80 C45

V160 C45

GROUTS

AND SEWER

NCRETE RE/ PAIRING MO DR-USE CHANNEL

ROTECTION FI

PRODUCTS

V80 C45

V160 C45

TECHNICAL DATA				
TYPE			V80 C45	V160 C45
grain size		mm	0–8	0–16
grouting height		mm	60–200	80–400
amount of water		%	10	10
consumption		kg/dm³	2,0	2,1
processing-time (20°C)		min.	арр. 90	app. 90
slump	5 min.	cm	≥ 60	≥ 50
expansion	24 h	Vol. %	≥ 0,4	≥ 0,4
compressive strength*	24 h	N/mm ²	≥ 15	≥ 15
EN 12390-3	7 d	N/mm ²	≥ 40	≥ 45
cube 15x15x15cm	28 d	N/mm ²	≥ 60	≥ 60
	56 d	N/mm ²	≥ 65	≥ 65
	91 d	N/mm ²	≥ 70	≥ 70
bending strength EN 12390-5	24 h	N/mm ²	≥ 1.5	≥ 1.5
	7 d	N/mm ²	≥ 3.5	≥ 3.5
	28 d	N/mm ²	≥ 5.0	≥ 5.0
	56 d	N/mm ²	≥ 6.0	≥ 7.0
	91 d	N/mm ²	≥ 7.0	≥ 8.0

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

* DIN EN 196-1-compliant compressive strength testing; DIN EN 12390-3-compliant compressive strength testing

All of the test values provided correspond to DafStb VeBMR - Directive

storage:	9 months, dry in well sealed bags
supplied in:	25-kg-bags
hazard class:	no dangerous substance observe
	safety data sheet
GISCODE:	ZPI

	Unit	Test value	Categori- sation	Test value	Categori- sation
		V80C45		V160C45	
Flowability class/ Expansion class	mm	630	a2	580	a1
Shrinkage	ES, m 91 = mm/m ES, i 91 = mm/m	0,6 0,6	SKVB I	0,7 0,7	SKVB I
Early strength class	fc,cube, 24, min, N/mm²	22	С	16	С
Compressive strength class	fci,cube, 28 FC, mcube, 28 d	74	C50/60	69	C50/60

PROCESSING

SUBSTRATE: Clean thoroughly, free of loose and unsound material, remove any cement slurry by means of high pressure water jets or other equipment down to the load bearing grain structure. Approx. 6 hours before grouting prewet to saturation.

FORMWORK: Must be of rigid construction, with sand or dry mortar being placed around the concrete base carefully to prevent leakage

EN 150 8001 2001



CE Mark and EC conformity according to EN 934-4:2001/A1:2004 Reg.-No.: 0921-BPR-2010 EN 934-4 compliant grout additive

MIXING: The grout is ready for use and only has to be mixed with water. Apart from a residual quantity pour water into the forced-circulation mixer, add dry mortar and mix for approx. 3 minutes. Add the rest of the water and mix for a further 2 minutes. When applying in the mixing and conveying technic an agreement regarding to what kind of machinery is to be used should be reached.

GROUTING: Place the mixed grout from one side or corner only, if possible in one continuous pour. When grouting large areas we recommend to apply the grout starting from the middle of the plate.

CAUTION: Exposed areas must be protected against wind, draught and premature evaporation by using for example plastic foil or O1 PAGEL-SURFACE-**PROTECTION**. Heights and shoulders around base plates must not exceed 1.97 inch. In the event of frost please contact our Technical Department. Low temperature working conditions and colder mixing water retard the strength development and reduce the flowability while high temperatures accelerate the same.

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