PAGEL®

PAGEL®-BASALT GROUTING

V15/30

V15/50

PROPERTIES

- **V15/30** (0-0.12 inch)
  grouting height 1.18–1.97 inch
  V15/50 (0-0.2 inch)
  grouting height 1.57–3.94 inch
- the admixture consists of **basalt sand and gravel**
- **heat-resistant** up to 752 °F
- capable of **high flowability** it can be used as **grouting mortar** or, depending on the quantity of water, as **tamping mortar**
- was developed on the basis of **V1 PAGEL GROUTING MORTAR** and this guarantees high quality and durability
- **ready for use**, need only be mixed with water
- **free of chlorides**
- **does not shrink, develops a controlled increase in volume** with force locking bonding between concrete foundation and machine plate
- **resistant to freeze thaw-cycles**, impervious to water and resistant to oil and chemicals
- depending on the height of the grouting it is supplied in **various grain sizes**, as an option also with steel fibers
- **company is certified according DIN EN ISO 9001:2015**

FIELDS OF APPLICATION

- **steel and metallurgical works** as well as mining installations
- **machines**
- **steel supports**
- **turbines**, generators, compressors, diesel engines and other power station equipment, which are subject to high vibrations
- **paper, chemical and refining equipment**

Moisture class based on concrete erosion from alkali silicic acid reactions				
moisture class	WO	WF	WA	WS
	dry	wet	wet · external supply of alkalis	wet · external supply of alkalis · subject to high levels of dynamic stress
V15	·	·	·	·

The aggregates in PAGEL's products comply with the requirements of alkali sensitivity class E1 from non-hazardous sources specified under DIN EN 12620.

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

	XO	XC	XD	XS	XF	XA	XM
	0	1 2 3 4	1 2 3	1 2 3	1 2 3 4	1 2 3	1 2 3
V15/30	·	· · · ·	· · ·	· · ·	· · · ·	· ·	·
V15/50	·	· · · ·	· · ·	· · ·	· · · ·	· ·	·

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TECHNICAL DATA

TYPE			V15/30	V15/50
grain size		inch	0–0.12	0–0.2
grouting height		inch	1.18–1.97	1.57–3.94
quantity of water		%	10–12	10–12
consumption		lbs/ft³	approx. 124.86	approx. 137.35
density of freshly mixed mortar		lbs/ft³	approx. 148,58	approx. 153,58
processing time	68 °F	min.	approx. ≥45	approx. ≥45
measure of extesion	5 min.	cm/Ø	≥9.84	≥9.84
compressive strength*	24 h	PSI	≥5,800	≥5,800
cube 15x15	7 d	PSI	≥8,700	≥8,700
	28 d	PSI	≥10,875	≥10,875
bending strength	24 h	PSI	≥725	≥725
	7 d	PSI	≥1,015	≥1,015
	28 d	PSI	≥1,160	≥1,160
expansion		Vol.%	+ 0.1	+ 0.1

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
Tests of fresh and hardened grout at 68°F ± 35,6°F, storage of the test pieces after 24 hours until the strength test in water at 68°F ± 35,6°F. Higher or lower temperatures result in deviating properties and test results of the fresh/hardened grout. Depending on the temperature the consistency can be adapted by a slight reduction of the mixing water.

packaging: 55 lbsbag, euro-pallet 2,200 lbs
storage: 12 months. Cool, dry, free from frost. Unopened in its original packaging.
hazard class: no dangerous substance follow safety data sheet
giscode: ZP1

PAGEL GROUT

cement:	DIN EN 197-1 compliant
aggregates:	EN 12620 compliant
additives:	EN 450, AbZ, EN13263 compliant (quick ash, microsilica etc.)
additional substances:	DIN EN 934-4 compliant

PROCESSING

SURFACE: Clean thoroughly. Remove loose and adhesion-restricting parts as well as cement sludge by using high pressure water jets or other equipment down to the load-bearing grain structure. Approximately 6 hours before grouting pre-wet to saturation.

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

MIXING: The grout is ready-to-use, it only has to be mixed with water. Pour water into the forced mixer except for a residual quantity, add dry mortar and mix for approx. 3 minutes; add rest of the water and mix for a further 2 minutes. With other types of mixer use longer mixing periods if required. The grouting process should proceed directly.

APPLICATION: The grouting process is to be carried out from one side or corner only and if possible without interruption. For large-area processes we recommend if possibly proceeding from the middle of the plate, grout with funnel and corresponding tube. First grout the anchor holes (up to the top edge of the anchor hole) and then the machine plate.

NOTE: Open surfaces are to be protected against wind, draughts and premature water evaporation e.g. with plastic foil or **01 PAGEL-SURFACE PROTECTION**. The edge of the grouting should not be wider than approx. 1.97 inch. In case of frost, please contact us. Lower temperatures delay the development of strength and reduce the flow ability, higher temperatures accelerate the same; colder preparation water interferes with flow ability.

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