Danterr
CONCRETE ACCESSORIES FOR AUSTRALIA

T.1800 262 383 E. sales@danterr.com
W.danterr.com

V1HF SUPER HIGH STRENGTH GROUT

PRODUCT DESCRIPTION

V1 / 30HF	Pagel Super High Strength Grout (0-3mm)
V1 / 60HF	Pagel Super High Strength Grout (0-6mm)
V1 / 0HF	Pagel Super High Strength Grout (0mm)

AREAS OF APPLICATION

SUBSTRATE
Clean thoroughly, remove all loose and unsound material such as cement slurry etc using a grit or water jet blaster or similar until the underlying grain structure is reached. The underlying substrate must have sufficient pull-off strength (i.m. 1.5 N/mm2).

Remove all of the rust from any exposed reinforcement bars with a sandblaster (Sa 2 1/2 as specified under DIN EN ISO 12944-4).
Wet the surface approx. 6–24 hours before grouting until capillary saturation.

FORMWORK
Attach in such a way that it is leak proof and robust. Seal around concrete base with, e.g. sand or dry mortar.

MIXING
The grout is supplied ready for use and only needs to be mixed with water. Measure out the quantity of water specified on the packaging and pour most of it into a clean and suitable mixing device (e.g. compulsory mixer). Add the dry mortar and mix for at least 3 minutes; add the remaining water and mix for another 2 minutes until it forms a uniform mass. Depending on the existing mixer longer mixing times may be required. Once the grout is ready mixed, apply immediately. If using a mixing and delivery pump and out -putting material continuously, we recommend installing an agitator downstream of the mixing and delivery pump to ensure that the material is properly mixed. If using a mixing and delivery pump such as: PABEC II; we recommend the agitator: Putzmeister Dynamat.

MIXING WATER
Drinking water quality

GROUTING
The mixture must be poured from one side or corner only in one continuous pour. When grouting large are-as, we recommend to pour the grout starting in the centre of the foundation plate, using a funnel or delivery house. On machine installations, cavities should be filled first (up to around just below the top edge) and then the base of the machine or similar.

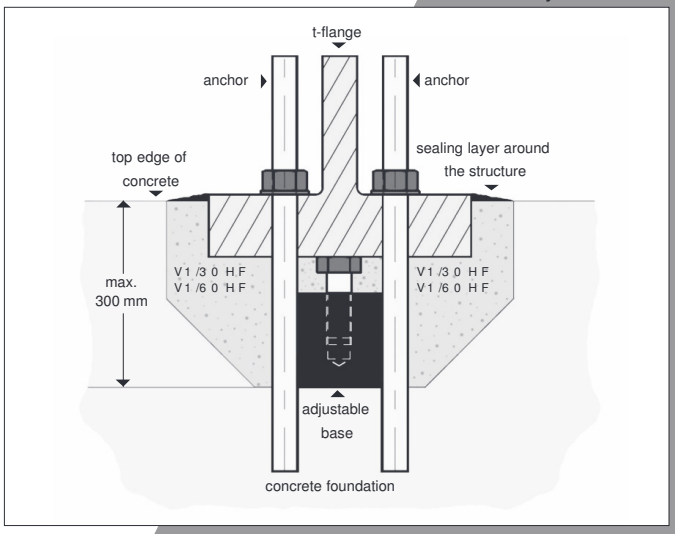
CAUTION
On completion of the grouting, exposed areas must be immediately protected from premature water evaporation for a period of 3-5 days (wind, drafts, direct sunlight).

METHODS THAT CAN BE USED TO PROTECT THE GROUT
Misting the grout with water, covering it with foil and strips of felt, thermal insulation or a material that retains moisture

FIELDS OF APPLICATION

- Turbines, compressors
- Wind turbines, cast joints
- Portal and container transport systems V 1 /0 H F : Lubemix for hoses

Jointfiller for hybrid towers



T. 1800 262 383 E. sales@danterr.com
W. danterr.com

O1 PAGEL EVAPORATION PROTECTION

When using O1 PAGEL EVAPORATION PROTECTION observe the information on the Technical Data Sheet O1 PAGEL EVAPORATION PROTECTION .
Temperature limits for application (substrate, air and grout temperature): +5 °C to +35 °C
Applying the concrete in low temperatures and using cold mixing water will delay the concrete's strength development, require that it is intensely mixed and will reduce its flowability. High temperatures speed it up.

PROTRUDING GROUT

Do not exceed the specified 50 mm when allowing grout to protrude and observe the structural specifications. When grouting dynamically stressed and prestressed base plates and machine foundations that are subject to high compression strengths at the edges, the grout should ideally be applied to be flush with the bearing plate, provided with a 45Â° edge using formwork or cut off flush with the bearing plate before it has set. This will prevent any stresses from becoming superimposed on one another and from becoming annihilated (observe static and structural specifications).

NON-IRON METALS

Cement and cementitious building materials may cause non-iron-metals (e.g. aluminium, copper, zinc) to loosen or come off where they are tied in. Please contact us for technical advice.

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

Danterr
CONCRETE ACCESSORIES FOR AUSTRALIA

T. 1800 262 383 E. sales@danterr.com
W. danterr.com

V1HF SUPER HIGH STRENGTH GROUT

TECHNICAL DATA					
TYPE			V 1 /3 0 H F	V 1 /6 0 H F	V 1 /0 H F
grain size		mm	0–3	0–6	0
coating thickness		mm	30–300	40–400	–
amount of water	%	max.	9	9	20
consumption (dry mortar)		app. kg/dm³	2.30	2.30	1.836
density of freshly mixed mortar		app. kg/dm³	2.45	2.45	–
working time	20 °C	app. min	60	60	60
slump flow	5 min	cm	55	–	30
	30 min	cm	45	–	–
slump	5 min	cm	60	60	60
	30 min	cm	52	52	52
expansion	24 h	Vol. %	+ 0.1	+ 0.1	+ 0.3
compressive strength*	24 h	N/mm²	70	70	60
	7 d	N/mm²	90	90	85
	28 d	N/mm²	130	115	100
	56 d	N/mm²	135	120	–
	91 d	N/mm²	135	120	–

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.
* Grout compressive strength tested as specified by DIN EN 196-1; Concrete compressive strength tested as specified by DIN EN 12390-3 V1/30HF: Correl. compressive strength factor: Prism compression strength 40 x 40 x 160 mm : Cube compression strength 150 mm³ = 0.98

All of the test values provided correspond to DAfStb VeBMR – Directive
Tests of fresh and hardened grout at 20°C ± 2°C, storage of the test pieces after 24 hours until the strength test in water at 20°C ± 2°C. 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.

STORAGE

12 months. Cool, dry, free from frost. Unopened in its original packaging.

PACKAGING

20-kg bag, euro-pallet 960 kg, 1000-kg-Big-Bag

HAZARD CLASS

no dangerous substance follow safety data sheet

GISCODE

ZP1

Exposure class according to:
DIN 1045-2 and EN 206-1

PAGEL – SUPER HIGH STRENGTH GROUT

	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
V 1 /3 0 H F	•	• • • •	• • •	• • •	• • • •	• •	•
V 1 /6 0 H F	•	• • • •	• • •	• • •	• • • •	• •	•

Moisture classes in reference to concrete corrosion caused by alkaline silica reactions				
moisture class	WO	WF	WA	WS
	dry	damp	damp • external alkali supply	damp • external alkali supply • strong dynamic stress
V 1 /3 0 H F	•	•	•	•
V 1 /6 0 H F	•	•	•	•

All of the aggregates used in PAGEL products are obtained from safe sources and correspond with the alkali sensitivity class E1 as specified under DIN EN 12620.

Danterr
CONCRETE ACCESSORIES FOR AUSTRALIA

T. 1800 262 383 **E.** sales@danterr.com
W. danterr.com

V1HF SUPER HIGH STRENGTH GROUT

Classification according to DAfStb VeBMR - Directive Product: PAGEL - GROUT		
	V 1 /3 0 H F	V 1 /6 0 H F
flowability class	f1	a2
shrinkage class	SKVM 0	SKVB 0
early strength class	A	A
compressive strength class	C100/115	C100/115

CE
0921
PAGEL SPEZIAL-BETON
GMBH & CO.KG
Wolfsbankring 9
45355 Essen, Germany
11
110931
EN 1504-6:2006
V1/30HF
PAGEL Super high strength grout
Anchoring product

Pull-out	≤ 0.6 mm
Chloride ion content	≤ 0.05 %
Reaction to fire	A1

CE
0921
PAGEL SPEZIAL-BETON
GMBH & CO.KG
Wolfsbankring 9
45355 Essen, Germany
11
110931
EN 1504-6:2006
V1/30HF
PAGEL Super high strength grout
Anchoring product

Pull-out	≤ 0.6 mm
Chloride ion content	≤ 0.05 %
Reaction to fire	A1