

V1 / 50
V1 / 10
V1 / 160

V
ER
TEX

Formerly Pagel Pakistan Pvt. Ltd.

Description

V1/50 /4"– 4"/ 20–120 mm grouting thickness.

V1/10 < 1 /16"/ < 30 mm grouting thickness.

V1/160 > 4"/ > 100 mm grouting thickness.

- High flowability, even after 90 minutes.
- Cement-based and chloride-free.
- Controlled and even expansion with a rigid bond between concrete foundation and machine base plate.
- High early and final strength.
- Low modulus of elasticity in connection with high bending strength.
- Resistant to cracks even when prepared with a low water/cement ratio (0.36-0.38).
- Resistant to freeze/thaw cycles, waterproof, resistant to oil and petrol.
- Pumpable and easy to pour even during low temperatures.
- Good for use in drinking water areas.

Recommended Uses

- Universal grout for precision machines of all kinds.
- Turbines, generators, compressors, diesel engines and other power equipment operating with heavy vibration.
- Anchor screws, levelling units and sole plates.
- Steel and concrete columns.
- Pre-fabricated concrete units and structural steel works.
- Bridge bearings and construction joints.
- Crane rails and radio telescopes.
- Steel and blast-furnace plants as well as mines.

ADMIXTURES

SPECIAL ADMIXTURES

SURFACE IMPROVEMENT

GROUTS

WATER PROOFING

FLOORING

INDUSTRIAL COATINGS

JOINT SEALANTS

REPAIR / CRACK INJECTION

TILING SYSTEMS

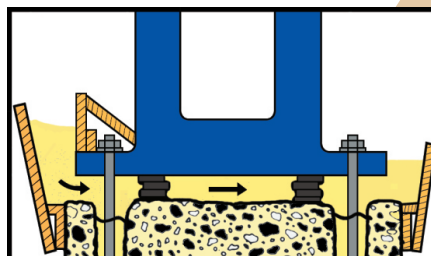
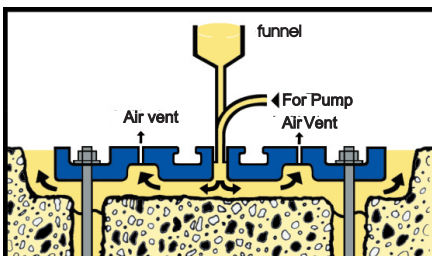
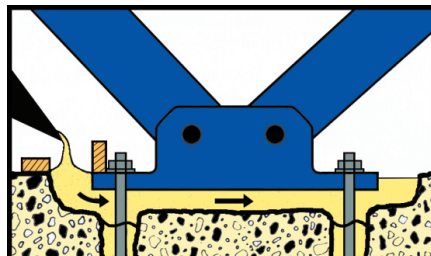
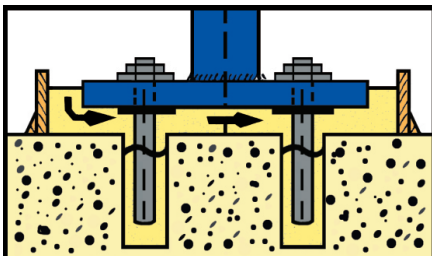
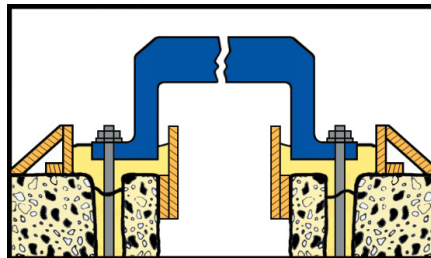
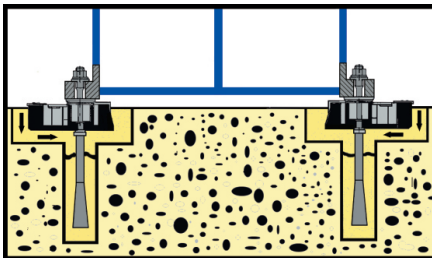
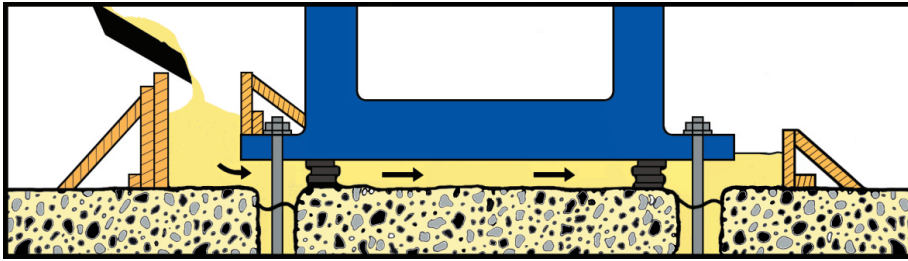


Technical Data

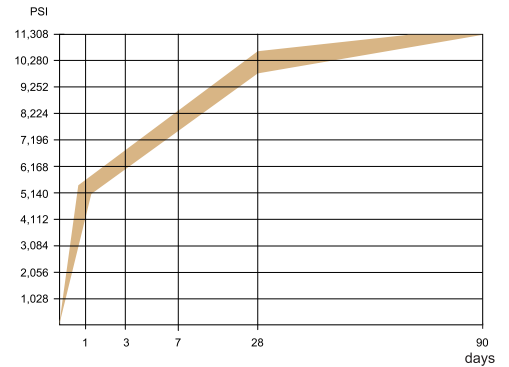
TYPE			V1/10	V1/50	V1/160
Aggregate Size		Inch mm	0 - 0.04 0 - 1	0 - 0.02 0 - 5	0 - 0.63 0 - 16
Grouting Height		Inch mm	0.20 - 1.18 5 - 30	0.79 - 4.72 20 - 120	3.94 >100
Amount of water		%	12-13% 3 1/4 - 3 1/2 QTS(3-3.25L)	10-12% 4 - 4 1/4 QTS(3.25-4L)	11%-2 5/8 - 3 QTS(2.5-2.75L)
Material Needed (dry mortar)		Kg/dm ³	2.0	2.0	2.1
Density of freshly mixed mortar	at 20°C	Kg/dm ³	2.28	2.3	2.33
Workability	Immediately	Min.	>90	>90	>90
Flowability (channel)	60 Min.	inch (cm)	21.65 (55)	21.65 (55)	-
	Immediately	inch (cm)	20.47 (52)	17.71 (45)	-
Measure of extention (DIN 1048)	60 Min.	Vol. %	-	-	21.65 (55)
Extension	24 h	Vol. %	-	-	17.71 (45)
	28 h	PSI (MPA)	+ 0,5	+ 1,0	+ 1,0
	24 h	PSI (MPA)	+ 0,5	+ 1,0	+ 1,0
Compressive strength	7 d	PSI (MPA)	4,930 (34)	5,510 (38)	5,655 (39)
V1/10, V1/50: 1.57 x 1.57 x 6.30 inch	28 d	PSI (MPA)	6,960 (48)	8,120 (56)	8,120 (56)
V1/160: 3.943.943.94 inch	90 d	PSI (MPA)	10,005 (69)	10,440 (72)	10,440 (72)
	24 h	PSI (MPA)	10,875 (75)	11,310 (78)	11,310 (78)
Bending strength	7 d	PSI (MPA)	652.5 (4.5)	797.5 (5.5)	797.5 (5.5)
1.57 x 1.57 x 6.3 inch	28 d	PSI (MPA)	797.5 (5.5)	942.5 (6.5)	942.5 (6.5)
	90 d		1,087.5 (7.5)	1,160 (8.0)	1,160 (8.0)
Pot Life at 30°C		min	120	120	120

All test data are derived under normal climate conditions. 23/50-2

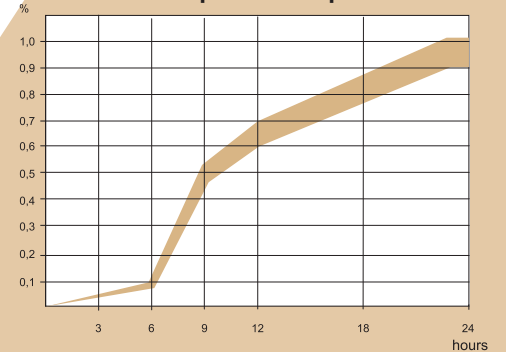
Visual Representation:



Development of compressive strength (V1/50)



Development of Expansion



Application Guidelines

Surface preparation:

Clean thoroughly, remove loose or unsound material and cement slurry by means of hydraulic water-blasting or similar till carrying capacity of grain structure is reached. Prior to grouting, the surface must be wetted continuously for approx. 6 hours till 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 for use, only water is to be added (10–12 % or 2.5–3 l per bag). Measure out the correct quantity of water and fill two thirds of this into a concrete 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.

Placing:

Place the mixed grout from one side or corner only in one continuous pour. When grouting large areas, we suggest to pour starting from the middle – using a pipe or funnel. On machine installations fill the anchor bolt pockets first (up to approximately top of anchor bolt pockets) and then the underside of the machine. Open areas must be protected against wind, draught and premature evaporation by using for example a plastic foil or VERTEX RockCure O2 Curing Compound.

Grouting shoulders:

Height and shoulders around base plates must not exceed 2 inches or 50 mm.

Temperature:

Apply between 5°- 35°C. Low temperature working conditions retard the strength development and reduce the flowability while high temperatures accelerate the same.

Non-Iron-Metals:

Cement as well as all cement-bound building materials may under certain circumstances cause a coming-off of non-iron-metals in the application area (for example aluminum, copper, zinc), please ask for our technical service.

Important Information:

Supplied in: 25kg Bag.

Storage: Dry, frost free area. Out of direct sunlight.

Yeild: 0.12 m³/bag.

Shelf life: 12 months.

Hazard Class: No dangerous goods.

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