

V1/50 GP

HIGH STRENGTH FLOWABLE GENERAL PURPOSE GROUT

V ER TEX

Formerly Pagel Pakistan Pvt. Ltd.

PROPERTIES

V1/50 GP cementitious grout is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a owing non-shrink grout for gap thickness up to 120 mm.

- High flowability, also after 90 minutes
- Cement-based and chloride-free
- Controlled expansion
- Good early and final strength
- Low modulus of elasticity in connection with high bending strength
- Resistant to cracks even when having a low w/c value (0.36-0.38)
- Resistant to freeze/thaw cycles, waterproof, resistant to oil and petrol
- Pumpable and easy to pour even during low temperatures
- Permission for use in drinking water areas

FIELDS OF APPLICATION

- Columns in pre-cast construction
- Concrete anchors, cavities, gaps and recesses
- Base plates of general machinery
- General concrete repairs
- Bridge bearings pads
- Prefabricated concrete units and structural steelworks

ADMIXTURES

SPECIAL ADMIXTURES

SURFACE IMPROVEMENT

GROUTS

WATER PROOFING

FLOORING

INDUSTRIAL COATINGS

JOINT SEALANTS

REPAIR / CRACK INJECTION

TILING SYSTEMS



TECHNICAL DATA

Size		Inch	0-0.20
		mm	0-5
Grouting height		Inch	0.79-4.72
		mm	20-120
Amount of water		%	11-13
Material needed (dry mortar)		Kg/dm ³	2.0
Density of freshly mixed mortar		Kg/dm ³	2.29
Workability	at 20°C	Min.	>90
Flowability (channel)	Immediately	inch (cm)	21.25 (54)
	60 Min.	inch (cm)	17.31 (44)
Extension	24 h	Vol. %	+1
	28 d	Vol. %	+1
Compressive strength (ASTM C109)	24 h	PSI (MPA)	4550 (32.4)
1.57 x 1.57 x 6.30 inch	7 d	PSI (MPA)	6,960 (48)
	28 d	PSI (MPA)	9410 (65)
Bending strength			
1.57 x 1.57 x 6.3 inch			
Ambient Air Temperature			+5 °C min. / +35 °C max.
Substrate Temperature			+5 °C min. / +35 °C max.

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

- Additive :

General Construction Permission
Nr. Z-3.21-1461
Corresponding Certificate Nr. 219000
- Storage:

12 months in sealed container, dry
- Packaging:

25-kg-bag
- Yield:

12-13 L per 25Kg Bag

CE

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

APPLICATION

SURFACE

Clean thoroughly, free of loose and unsound material, remove any cement slurry by means of hydraulic water-blasting or similar till carrying capacity of grain structure is reached. Sufficient adhesion must be granted (i.m. 218 PSI). 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 minutes. Grouting then should take place immediately.

GROUTING

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.
Potlife: approx. 120 min.

CAUTION

Open areas must be protected against wind, draught and premature evaporation by using for example plastic foil or O1 PAGEL-CURING AGENT.

Grouting shoulders: Heights and shoulders around base plates must not exceed 2 inches or 50 mm.

Temperature: Application between 41°F and 95°F (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 exemple aluminium, copper, zinc) please ask for our technical service.

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APPROVED

