

BUILDGROUT GP BUILDGROUT HS

Ready to use non-shrink free flow cementitious grout

DESCRIPTION : BUILDGROUT GP & HS are ready to use free flow cementitious grouts in powder form, which develop very high early strength and eliminate plastic shrinkage normally associated with concrete.

STANDARD : BUILDGROUT GP & HS complies with ASTM C 1107-91

USES : Grouting of machine bases/foundation, column bases/steel and precast concrete, anchor bolts, holding down bolts.

FEATURES

- ❖ Controlled expansion – positive surface contact.
- ❖ Rapid installation and early operation through faster development of strength.
- ❖ Pre-mixed, addition of water only needed.
- ❖ Highly reliable quality – produced under rigid quality control.
- ❖ Non-corrosive, contains no calcium chloride.

APPLICATION

All surfaces should be free from dirt, dust, grease, oils and other contaminants. Surfaces should be pre-wetted/saturated with clean water for 4-6 hours, and surface water be removed before grouting with BUILDGROUT.

Mixing : BUILDGROUT powder is to be added to potable water in the recommended ratio, as given below :

	BUILDGROUT GP	BUILDGROUT HS
Flowable grout : water/50 kg. grout bag	7 – 8 ltrs.	6 – 7 ltrs.
Plastic grout : water/50 kg. grout bag	6 – 7 ltrs.	5 – 6 ltrs.

Manual mixing is not recommended mechanical mixer like paddle or revolving drum type should be used. Mixing of 3-5 minutes is recommended to get a homogeneous consistency. Fluid grout should be placed within 20/30 minutes. Gelled material should be discarded and no further addition of water is recommended. The water : powder ratio ranges between 0.14 – 0.16 depending on the site conditions.

PLACEMENT

Pouring head should be used for base plate grouting. For holding down bolt in 10 cm and above diameter hole or grout bed exceeding 80mm thickness, clean aggregates from 4mm to 8mm in saturated surface dry condition may be used along with BUILDGROUT, upto 20-30% of grout weight depending on strength and workability requirements.

Pocket grouting to be carried out first prior to the grouting between substrate & base plate. Pouring should be from one side to remove any air pockets trapped between the base plate & substrate. Head pressure (approximately 200mm) must be maintained to ensure free flow and maximum contact area.

Once the grout is poured, exposed area should be cured, using BUILDGROUT curing membrane or conventional system using water and wet hessian cloth.

TECHNICAL DATA

Form	:	Grey cementitious powder	
Temperature tolerance	:	Upto 200 °C	
Powder bulk density, kg/m ³	:	1350	
Fresh wet density, kg/m ³	:	2250	
Free expansion (linear)	:	Upto 2%	
Usable life at 30°C and 60% RH	:	30 minutes	
Typical compressive strength N/mm ²	:	BUILDGROUT GP BUILDGROUT HS	
(w/c : 0.16 – 0.17)			
1 day	:	15	25
3 days	:	25	35
7 days	:	35	45
28 days	:	50	60
Flexural strength N/mm ² (w/c : 0.17)			
1 day	:		2.5
3 days	:		6.5
7 days	:		8.0
28 days	:		9.5
Tensile strength at 28 days(w/c:0.17)	:	3.5 N/mm ²	4.0N/mm ²
Pullout bond strength N/mm ²			
(w/c : 0.17)			
7 days	:	15	15
28 days	:	18	18
Young's Modulus	:	25kN/mm ²	25N/mm ²
Yield	:	50kg. BUILDGROUT will fill 25 ltrs. of void	
Packing	:	50 kg. HDPE bags	
Health and safety	:	Non-toxic, non-inflammable, eco-friendly.	