

K5 STONEHARD SPL

Free Flow, High Strength, Non-Shrink Cementitious Precision Grout Compound

Description :

A Single pack ready to use, ultra high strength, free flowing, non shrink grout. K5 STONEHARD SPL is blend of specially processed cement and special fillers which are free from corrosive substances and additives. It is highly compensate for shrinkage which impart controlled expansion in the plastic state, thus it compensates for shrinkage and settlement. It produces high ultimate strength and low permeability of water. It ensures high level of contact with increased flow ability.

Uses :

- It is to be used to eliminate shrinkage by complete filling of voids / gaps between base plate and applied substrate upto a thickness of 100 mm, beyond which it requires to mix with aggregates.
- It can be used to grouting of a staction base plate. It can also be used for anchoring of bolts, base plates (or under ground conditions, fence rosts, masts and columns in pre-cast construction.

Advantages :

- Ready to use only precise quantity of water to be added.
- Ideal for heavy dynamic and rotary equipments.
- Ultra high strength and low permeability of water.
- Non shrink so to maintain original volume.
- Chloride free thus non corrosive substances.
- Free flowing and self leveling grout.

Application Instructions :

MIXING : Mechanical mixing using a grout mixer or concrete mixer is recommended. No hand mixing is permitted.

- (1) Place 85% of the water required in a concrete mixer [100% in case of a grout mixer].
- (2) Slowly add the required amount of K5 STONEHARD SPL while continuously for 1 minute. Add balance quantity of water (15 %) and mix for 4 to 5 minutes. The mixed grout must be placed immediately and grouting must be continuous till the cavity is filled.

SURFACE PREPARATION :

- (1) All contaminated surfaces must be cleaned thoroughly by chemical or mechanical methods.
- (2) All bolt pockets and under bases must be free from dust, laitance and of sound substrate. If needed, substrate with water to allow for full absorption for at least 24 hours. Just before the grouting is to commence, all water must be removed completely leaving the surface only damp.

BOLT POCKETS :

Depending on the size of the bolt pockets, 50-100% cleaned 10mm sound aggregates by weight of grout consumption may be incorporated to economies on grout and also to keep the heat of hydration low. When the thickness exceeds 100mm-150mm our technical department may be contacted for advise. There must be at least 12 hours gap between bolt pocket and under base plate grouting sequence.

UNDER BASE PLATE :

Leak proof strong formwork must be provided to withstand operational stresses while grouting and all edges must be sealed with K5 STONEHARD SPL of trowelling consistency to arrest the grout from flowing out of formwork. The sealed edges must be strong enough to resist fluid grout (at least 1-2 hours after sealing). Hydrostatic head 150-250mm must be provided to enable the free flowing of grout under base plate. Grouting must be continuous until the cavity is completely filled to the desired level. The exposed areas must be kept to a minimum. 100-150mm on the grouting side and 50mm on the opposite side. All exposed area must be restricted by covering with wooden planks or polythene sheets with sand sprinkled on top of the sheet to avoid cracks on the grouted surface.

CURING :

6 – 8 hours after grouting, all exposed areas must be cured with wet Hessian cloths (keep wet always) or water ponding wherever possible for minimum 7 days. [Separate application details are available by request].

Properties :

1. Flow on flow Table : 16 to 20 cms.
2. Expansion : 0.8 to 1.4 % by volume.
3. Compressive strength

AGE IN DAYS	Compressive strength in KG/CM ²	
	Pourable W/P=0.15	Flowable W/P=0.16
1 DAY	250	230
3 DAYS	350	325
7 DAYS	450	425
28 DAYS	700	650

Packing :

25 kg. woven bag.

Shelf Life :

6 months storage life when stored in original unopened container at between 5 °C to 45 °C in a dry and shaded place.

Health & Safety :

K5 STONEHARD SPL is non-hazardous. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately, do not induce vomiting.

Note :

All information is given in good faith on the results gained from experience and tests. However, all recommendations or suggestions are made without guarantee since we don't have any control on site conditions and its uses.

