

K5 STONEHARD 60

High Strength, Free Flow, Non-shrink Grout

Image

Description :

K-5 STONEHARD 60 is based on specially processed cement containing fillers and additives. K-5 STONEHARD 60 is supplied as ready to use grout requiring addition of precise quantity of water at site (3.750 to 4 Litre/25 Kg Grout). K-5 STONEHARD 60 is suitable for gap widths of between 10mm - 50mm. For width less than 10 mm K-5 STONEHARD EP resin grout can be used (see separate data sheet for more information) for thickness in excess of 50 mm. (say 75-100), cleaned washed 10mm aggregates can be incorporated at the rate of 50% - 100% of the quantity of grout used.

Benefits :

- Prepacked, factory controlled consistent material needing only addition of water
- Shrinkage offset by expansion to ensure original volume is retained
- Free flowing, self levelling grout
- Easy placement and filling of under bases of machinery
- Non metallic and chloride free.

Product :

A Single pack ready to use, ultra high strength, free flowing, non shrink grout. K-5 STONEHARD 60 is a blend of specially processed cement and special fillers, free from corrosive substances and additives.

Uses :

Bolt pockets and base plate grouting of all equipment, Crane, stanchion bases and all type of machinery with dynamic load.

Yield :

One pack of K-5 STONEHARD 60 will produces approximately 12.5 litres of grout when mixed with specified quantity of water.

Typical Strength Development :

Compressive strength : Average strength (Kg/cm²) at flowable and pourable consistency.

AGE IN DAYS

Compressive Strength In Kg/cm²

Pourable W/P=0.15

Flowable W/P=0.16

Days	CS - Range	Days	CS - Range
1	200 - 250	3	300 - 350
7	375 - 450	28	500 - 650

Properties :

The water needs to be precisely measured and 25 Kg of K-5 STONEHARD 60 will require 3.750 litre for pourable consistency (W/P - 0.15) and 4 litres for flowable consistency (W/P - 0.16). Yield per 25 Kg : 12.5 lit.. approx : Pourable Life : 20 minutes : Application temp. : 10°C to 40°C; Expansion (% Vol): 0.8 to 1.5%. Flow : 20 to 25 cm on flow table. 315% at flow consistency.

Instruction For Use:

MIXING :

Mechanical mixing using a grout mixer or freefall concrete mixer is recommended. No hand mixing is permitted. (1) Place 80% of the water required in a concrete mixer [100% in case of a grout mixer]. (2) Slowly add the required amount of K-5 STONEHARD 60 while continuously stirring for 1 minute. Add balance quantity of water (20%) and mix for 3 to 5 minutes. The mixed grout must be placed immediately and grouting must be continuing 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.

UNDERBASE PLATE :

Leak proof strong formwork must be provided to withstand operational stresses while grouting and all edges must be sealed with K-5 STONEHARD 60 of trowelling consistency to arrest the grout from flowing out of formwork. The sealed edges must be strong enough to resist fluid grout (atleast 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. N.B. : Separate application guide available on request.

CURING :

3-4 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.

Packing & Shelf Life :

1 25 Kg. K-5 STONEHARD 60 is supplied in lined HDPE bag | K-5 STONEHARD 60 has a shelf life of 6 months, if stored in a dry enclosed area in unopened bags.

Health & Safety :

K-5 STONEHARD 60 is non-hazardous. However, inhalation of dust should be avoided while handling. In its wet state, if contact with eye occurs, wash well with clean water. All equipment and tools must be rinsed with water immediately after use and then dried.



Technical Service :

While new advances and changes will take place one thing will never change is quality and meeting special needs of customer. Technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and solve your problem.