K-5 STONEHARD HD

Hardwearing, Abrasion Resistant Industrial Flooring System For Heavy Duty Floors

Description :

K-5 STONEHARD HD is a ready to use pre blended cementitious integral floor hardener containing non metallic, non-oxidising chemically inert aggregates having high degree of wear and abrasion resistance. K-5 STONEHARD HD is laid as 12 mm thick topping on fresh concrete (monolithic construction) or as a topping on existing concrete floors (separate construction).

Benefits:

- Factory blended ready to use material
- Monolithic bond to the base concrete
- Hardwearing, abrasion resistant properties
- Non metallic aggregates - does not rust
- Non dusty, non slip floor
- Resistant to penetration of oils, grease
- For Heavy duty floor applications.

Product :

K-5 STONEHARD HD is a non metallic factory blended ready to use material containing special hardwearing abrasion resistant aggregates for monolithic bond with the base concrete.

Purpose :

For use on heavy duty industrial floor where floors are subjected to heavy wear and abrasion.

Usage :

Ready to use material. Needs only addition of precise quantity of water. Laid as 12 mm thick topping. (.13 W/P ratio i.e. 3.25 Ltrs water)

Coverage & Packing :

25 kg bag mixed with water will cover approximately 1 -1.2 m^2 at the thickness of 12 mm. 25 kg lined HDPE Bags.

Where To Use :

Loading bays, Factories, Warehouse, Car Park, Trucking Lanes, Workshops, Garages, Subways, Power Stations & Abattoirs.

Monolithic Construction :

BASE CONCRETE : The base concrete shall have a minimum cement content of 330 kg/m^3 with a slump of 40-60 mm using a low w/c ratio. The use of normal plasticizer at a dosage rate mix for 3 minutes until homogeneity in mix is established. 3-5 bags can be mixed at a time.

Laying K-5 Stone Hard HD Topping :

Allow the water to evaporate on the freshly laid compacted concrete. Depending on ambient temperature conditions, this could evaporate in between 1-2 hours. K-5 STONEHARD HD should be spread evenly on the concrete to the required thickness (12mm) after the surface water has evaporated. The spread is consolidated and leveled by the use of a straight edge. Care should be taken to well compact K-5 STONEHARD HD especially at corn and bay edges. The use of a hand rammer at these points is recommended. Final hand trowelling is recommended to remove any disc mark of the power float.

Curing :

After the final troweling, as soon as the surface has hardened sufficiently to prevent damage, cover with polythene sheet for atleast 10-15 hours after which water curing by ponding is required for a minimum 7 days. 10-14 days curing would be ideal. If no water curing is possible, then one coat of curing compound is recommended in conjunction with polythene sheet which may be left in place for 15 Hours to prevent the surface drying out.

Surface Sealing :

If surface sealing is thought to be necessary for chemical resistance or for aesthetic appearance, One coat of surface sealer is recommended.

LAYING OF K-5 STONEHARD HD ON EXISTING CONCRETE FLOORS: (SEPERATE CONSTRUCTION)

Preparation Of Base Concrete :

The existing base concrete must be free from loose particles, laitance and oil contamination. The concrete is hacked to a depth of atleast 50-75 mm and thoroughly washed with water to remove all debris, dust etc. Use of a epoxy bonding agent is recommended as a single coat application.

The fresh concrete must be laid on the surface on which bonding agent has been applied. The concrete must be of good quality and laying of concrete shall be as per 1.1 and 1.2 of this data sheet.

Method Of Mixing And Laying Of K-5 STONEHARD HD :

The same methods to be applied. Please refer to 1.3, 1.4, 1.5 and 1.6 of this data sheet.

Expansion Joints :

All expansion joints must be filled with a suitable joint sealant. Alternatively a flexible epoxy resin based material may be used in the saw cut joints and cracks.

Technical Services :

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.

Note :