LEAFSEAL F600

Coloured Mineral Dry Shake Floor Hardener

Product description

LeafSeal F600 is a premixed, ready to use powder, designed for application as a dry shake over a freshly floated concrete floor or floor screed to obtain an aesthetically pleasing, colored floor with significant improvement in its abrasion resistance. The product is based on selected hard wearing mineral aggregates blended with certain alkali and light fast coloring pigments and hydraulic binders.

Features and benefits

- Premixed therefore ready to use, easy apply, high and consistent quality.
- Improves resistance to abrasion.
- Reduce surface dust.
- Improves resistance to impact.
- Improves resistance to oils and greases.

Application range

- Foundation
- Ware-house floor
- Workshop
- Garage
- Parking lot

Consumption

Consumption: 3 - 5 kg/m^2

- Normal traffic area: 3 - 4 kg/m^2
- Heavy traffic area: 4- 5 kg/m^2

Application

Substrate Preparation

Concrete mix design must be corresponding with using purpose, for instance, with a slump of 10-12 cm or less and maximum 3% entrained air. The design and construction of the floor should be adequate to withstand the traffic, impact and such other loads the floor is likely to be exposed to. The vibrating beam and leveling work should be in right way to get optimum result.

Placing

LeafSeal F600 should be applied in two layers by broadcasting by hand. Approximately two-thirds of the total quantity should be applied in the first broadcast and the balance in the second.

First shake-on application

Mark the floor area into bays of convenient size and keep the required number of bags of LeafSeal F600 ready for each bay, depending on the rate of application specified. Broadcast the powder evenly by hand on the floor surface after the concrete has been floated and evaporation of bleed water. Apply first on floor areas adjacent to walls, columns, joints and doorways where the concrete is likely to loose moisture rapidly. After the applied LeafSeal F600 darkens in color indicating absorption of moisture from the concrete and when the concrete has stiffened enough to prevent the float blades from digging into the surface, float the applied surface using wooden hand floats or power floats. Float just enough to bring the excess moisture to the surface.

Second shake-on application

Follow with the second application of LeafSeal F600 as the first application proceeds to next bay. Broadcast the remaining third of LeafSeal F600 evenly by hand, compensating with extra material over areas under-applied during the first broadcast. As soon as the second layer has darkened by moisture absorption, float the surface with a power trowel equipped with

float blades or disc floats. If a coarse non slip surface is desired, start curing without any more finishing operations.

Finishing

The extent of further floating or troweling depends upon the finish desired on the surface. For obtaining a medium, non-slip finish, power float the surface for the third or fourth time depending on the setting characteristics of concrete. For obtaining a fine non slip finish, trowel the surface after it stiffens further using a hand or power trowel keeping the blades as flat as possible without digging in the surface. For a superior smooth finish, trowel again after further stiffening of the surface with slightly raised blades, but avoid raising them to an angle that creates chatter marks or blisters on the surface. If either start to appear, remove them by reducing the angle of trowel. For light colored floors, a stainless steel trowel must be used during the second and subsequent troweling. When only a little paste starts clinging to the trowel blade, finish with a final troweling with raised blades. Remove any pinholes and trowel marks by hand trowel. If a shiny smooth finish is desired, burnish trowel the surface.

Curing

Start curing immediately after final finishing to prevent rapid evaporation of water to avoid surface split or spotted formation.

Cleaning

Clean all tools and equipment with water before the they become sticky and harden by involved product.

Packaging

25 kg/bag (multi craft paper bag with polyethylene liners)

Technical Data

Supply form: Grey/Green, dry powder.

Bulk density: ~ 1.65-1.67 kg/ltr

Mohs hardness: 5– 6 (depends on the strength of the concrete and must be constructed by machine)

Waiting time:

- Pedestrian traffic/ Public area: 2 - 3 days
- Light traffic: 7 - 10 days
- Normal traffic: 28 days

However, depending on the ambient temperatures and the type of cement and admixture used in the concrete.

Shelf life

LeafSeal F600 has a shelf life of at least 12 months from the date of production with right storage conditions and unopened bag.

Safety Information

LeafSeal F600 is nontoxic but alkaline like normal cement and can cause irritation with sensitive skin. Gloves, mask, goggles should always be worn. Product is nonhazardous in transportation. Disposal should be done according to local law. For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

User notes

The technical details and recommendations contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is the responsibility of the user to ensure that the products are used in accordance with LeafSeal‘s instructions and in applications for which they are intended.