



Concrete Admixtures and Fiber

IMISHAKE 500

Dry-shake, Natural Aggregate Surface Hardener

DESCRIPTION

IMISHAKE 500 is a mixture of finely graded nonmetallic Quartz aggregates, plasticizer and cement binder. It is an economical concrete floor hardener recommended for both interior and exterior use. When applied at the proper point in the concrete setting cycle, IMISHAKE 500 is worked into the concrete to become an integral part of the floor to provide a surface which is highly resistant to abrasion. IMISHAKE 500 is available in a natural concrete color.

USE

IMISHAKE 500 is recommended for interior or exterior applications such as warehouse floors, shopping centers, hospitals, dairies, auditoriums, aircraft hangars, plants, loading docks, etc.

ADVANTAGES

- Increases impact and abrasion up to twice that of plain concrete
- Provides a high density surface that resist liquid penetration and is easy to clean and maintain
- Minimum surface dusting
- Exterior/interior application
- Non-fading color

SPECIFICATIONS/COMPLIANCES

U.S.D.A. accepted for use in facilities where incidental contact with food products is possible

Compliant with American Concrete Institute Standards:
ACI 302, ACI 305, ACI 306

APPLICATION

Coverage: 0.5 to 1.5 lbs./ft.² (2.3-7.3 kg/m²)

As a general guide to floor and slab construction, refer to American Concrete Institute Standard 302. All work should be done under roof if at all possible. Job conditions that affect drying/setting time also affect the hardener application time. Use experienced workmen for the job size.

Tools and equipment required. For most applications, a mechanical spreader that drops the dry shake directly onto the fresh concrete is recommended. For hand spreading, use a work bridge. Use wood bull floats. These are an aid to prevent crusting. Finishing machines use float blades, not combination blades. Use a 1/8"(.3 cm) radius tool for edges and joints. Consult IMI Mix Design and Application Guidelines before construction.

INTERNATIONAL MATERIALS INDUSTRIES, L.L.C.

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Preparation: Calculate the number of bags required for a given area as per the coverage rate required. Place concrete to finish grade level and compact with a wooden bullfloat.

Special Conditions: When slab is subjected to any condition that causes rapid surface drying such as wind, sunlight, etc., spray [IMIFILM](#) to surface just after bullfloating.

Placing: Application of the hardener depends on: slump of concrete, job site conditions affecting drying and the coverage of the hardener. Perimeter sets quicker than interior. Be aware of this and apply to edges first. Dry-shake surface hardeners are designed to be placed after bleeding. Apply 2/3 of coverage ratio on first application. Allow the dry-shake to darken, absorbing moisture from the slab, then wood bull float or machine at the appropriate time. Immediately follow with the remaining 1/3 and machine float. Final finish after the slab stiffens. To achieve maximum appearance and performance, float and finish the dry-shake so as to maintain the material on the top surface of the slab, fully integrated into the base concrete. Edges should be worked by hand keeping trowel as flat as possible. Blistering can occur when trowel blades have been raised too early. Re-trowel with blades lowered to remove blisters.

DO NOT add water to aid in finishing. This will weaken the surface. A hard troweled surface is recommended. DO NOT burnish, over trowel, or use magnesium tools with light reflective or light colored hardeners. Cure only with IMI curing compounds recommended for this type of hardener.

COMPOSITION

Color: Portland Cement Gray.

PACKAGING

50 lb. triple lined bag (22.7 kg)

LIMITATIONS

DO NOT place at temperatures below 40°F(5°C) or if the temperature is expected to fall below 40°F(5°C) in the next twenty-four hour period. DO NOT use dry-shake hardeners where floor will be exposed to any material, such as acid, or other material known to attack Portland Cement. Slump should not exceed 4"(10.16 cm). DO NOT use any air entrainment. Total air in concrete mix should not exceed 3%. DO NOT use calcium chloride or aggregates contaminated by salt water.

STORAGE

[IMISHAKE 500](#) should be stored in a cool, dry interior area. At no time should material be exposed to high moisture, rain or snow conditions. Shelf life under this conditions 12 months.