

ADCO FLOORHARD 174

Cementitious, metallic aggregate floor hardener, different colours, industrial applications

ADCO
Construction-
and Mining
Chemicals

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technical data sheet

DESCRIPTION

ADCO Floorhard 174 is a cementitious-based dry powder incorporating graded quartz aggregate, selected chemical additives as well as graded metallic aggregate to produce dense, hardwearing, high abrasion and impact resistant concrete surfaces as monolithically applied flooring system.

USES, ADVANTAGES

ADCO Floorhard 174 with its metallic aggregate constituent is specified for industrial floors that require superior properties in terms of surface density, durability, impact and wear resistance. The standard product is supplied pre-mixed in 20 kg paper bags in a cement grey colour, to be applied as a dry shake-on powder :

Application	kg per m ²
Light Duty	3 – 6
Medium Duty	5 – 8
Heavy Duty	8 – 12

GUIDELINES TO APPLICATION

The base concrete is designed to a characteristic strength at 28 days of 25 – 30 MPa with a workability measured as a 60 – 70 mm slump. Place concrete, consolidate and strike to level followed by wood floating. Ensure any bleeding water is removed, then allow concrete to stiffen until the surface can support a workman leaving footprints no greater than 4 – 5 mm.

Without delay, apply ADCO Floorhard 174 powder at the required dosage. Wait for moisture from the base concrete to penetrate the powder (evident by a uniform darkening), then wood-float again working the powder uniformly into the surface. The surface is ready to be steel- or wood-floated when the surface sheen disappears.

Do not add water during the finishing process.

At higher dosages, the application of the dry powder should be split, allowing moisture from base to concrete to penetrate the powder layer, followed by wood-floating procedure before applying the next dosage.

Ensure efficient curing of the surface to commence as soon as the finishing is complete – using the curing compound ADCOcure 212, a petroleum resin-based product. As soon as practically possible, taking into consideration ambient concrete characteristics and strength as well as conditions, joints are saw-cut by diamond blade to a depth minimum 25% of slab thickness.

QUALITY ASSURANCE

Our manufacturing and testing procedures comply with relevant standards.

SAFETY

ADCO Floorhard 174 is not considered toxic or dangerous, however, the use of standard industrial precautions such as protective clothing, gloves and eye goggles is recommended. Cementitious-based products are alkaline and hence may cause irritation to the skin and eyes.

Remember : Keep away from children, handle responsibly and consider the environment.

TECHNICAL SUPPORT

Detailed method statements for various applications are available on request.

Site training can be arranged.

Specification literature : ACI 201.2R Guide to durable concrete, SABS 0109-2 : 1992 Cement-based finishes.

UPDATE

May 2017.

This supercedes all previous documentation.