

ADCO FLOORHARD 171

Cementitious non-metallic
surface hardener, different colours

ADCO
Construction-
and Mining
Chemicals

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technical data sheet

DESCRIPTION

ADCO Floorhard 171 is a non-metallic cementitious-based dry powder incorporating graded quartz aggregate as well as selected chemical additives to produce dense, hard wearing and high abrasion resistant concrete surfaces in the form of a monolithically applied flooring system.

USES, ADVANTAGES

ADCO Floorhard 171 is specified in areas such as abattoirs, workshops, factories, etc – industrial floors that require superior properties in terms of surface density, durability, impact and wear resistance. The product can be supplied in colours. ADCO Floorhard 171 is applied by two different methods :

- Dry shake-on method
- Troweled overlay system

PACKAGING, YIELD

ADCO Floorhard 171 is supplied in 20 kg paper bags.

Dry shake-on method

Application	kg per m ²
Light Duty	3 – 4
Medium Duty	5 – 7
Heavy Duty	8 – 10
Colours	minimum 7
Troweled overlay system	± 10.5 litres yield per 20 kg bag

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 171 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 power floated when the surface sheen disappears. Do not add water during the finishing process – a finishing aid in the form of ADCO Nambond 233 sprinkled on by block brush may be considered if the floor exhibits “tearing” during steel- or power floating.

At higher dosages, the application of the dry powder should be split, allowing moisture from base 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 a curing compound such as ADCOcure 211 or kept damp with water. As soon as practically possible, taking into consideration ambient conditions, joints are saw-cut by diamond blade to a depth 25% of slab thickness.

QUALITY ASSURANCE

Our manufacturing and testing procedures comply with relevant standards.

SAFETY

ADCO Floorhard 171 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.