



TECHNICAL DATA SHEET
ID Product Code 240EDPHDG25
Rev. 01/2020

PRIMHARD +

QUARTZ BASED MINERAL HARDENER FOR INDUSTRIAL FLOORING

PRIMHARD + is a quartz based mineral hardener designed for protection and surface finish of industrial flooring. Suitable for its high mechanical strength and abrasion resistance for both internal and external industrial flooring subject to a medium / heavy and arduous traffic. The product is applied by dry -shake method on freshly cast, level concrete, distributing the anhydrous product in one or more layers, either manually or by mechanical means.

Composition

QUARZOCEM is a specially formulated, premixed powder product, consisting of special hydraulic binders, pure national quartz selected in appropriate granulometric curve and inorganic pigments

Mixing and application

DRY SHAKE METHOD PRIMHARD + is applied to fresh concrete using the dry shake method in one or two stages, either manually or mechanically before the concrete starts to set, normally after 4- 12 hours depending on the weather conditions.

MANUAL APPLICATION


For manual application, sprinkle the concrete surface with 1.5 to 2.5 kg/m² . When PRIMHARD +has absorbed all of the concrete moisture, smooth the surface using a power float but use hand trowels for the edges and corners. Apply a second coat sprinkling the surface with 1.5 to 2.5 kg/m² and finish the surface compacting and levelling the hardener coating. A second phase with the power float is needed for finishing the industrial floor, in order to obtain a perfect smooth surface. The joints should be put in from 24 to 48 hours after the installation of the flooring, using a diamond blade cutter and must be properly sealed. **MECHANICAL APPLICATION** For mechanical application, spread the dry shake product evenly in a single layer on the surface with 3.0 to 5.0 kg/m² . When PRIMHARD +has absorbed all of the concrete moisture, smooth the surface using a power float but use hand trowels for the edges and corners. A final phase with the power float is needed for finishing the industrial floor, in order to obtain a perfect smooth surface. The joints should be put in from 24 to 48 hours after the installation of the flooring, using a diamond blade cutter and must be properly sealed.



Recommendations

Do not apply on aged concrete or after the initial setting time. Do not apply at temperatures below + 5°C or above + 35°C. Do not apply to concrete that contains excessive amounts of bleed water; if necessary uniform the concrete surface by removing any puddles of water. Do not apply externally during rain or frost. Do not apply externally with strong wind, direct sunlight or temperatures above + 35°C. During manual application use appropriate personal protection

Chemical characteristics

Appearance	Powder
Colour	Grey or coloured
Powder volume mass EN 1015 - 10	~ 1500 kg/m ³
Aggregate strength	> 7 Mohs scale
Maximum aggregate size	≤ 2,5 mm
Water content of mixture	28%
Mixing ratio	By weight (100 part powder + 28 parts water)
Minimum thickness	5 mm
Maximum thickness	15 mm
Minimum application temperature	+ 5°C
Maximum application temperature	+ 35°C
Fit for walking on	> 12 hours
28th-day compressive strength EN 13892 -2	≥ 50 N/mm ² C50
28th-day flexural strength EN13892-2	≥ 5 N/mm ² F5
Reaction to fire EN 13501-1	Classe A1 _n
Böhme abrasive strength EN13892-3	Classe A9
Release of corrosive substances EN 13892-2	CT
Water permeability EN1062-3	NPD
Vapour permeability EN 12086	NPD
Sound insulation EN ISO 140-6	NPD
Sound adsorption EN 12354-6	NPD
Thermal resistance EN 12524	NPD
Chemical resistance EN 13529	NPD
Certification 	EN 13813:2002 Material for cementitious screeds CT-C50-F5-A9
Shelf life	Grey: 6 months from the date of production. Coloured: 12 months from the date of production. Keep the product in its original packaging, intact and protected from moisture and frost.
* indicative values, depending on the nature of the material and environmental conditions	



Coverage

3,0 - 5,0 kg per m² .



Storage

6 months in original intact packaging and stored in a dry place.



Packing

25 kg

Safety procedures

As far as the proper working procedures is concerned, we recommend to consult Material Safety Data Sheets issued according to E.U. rules and to follow your national laws concerning safety in the working place. MSDS is available on our web site www.primaxbuild.it

Trademark and Origin of the good

PRIMAX[®] is a registered trademark of Bellinzoni company. The law considers a trademark to be a form of property and any misuse can be persecuted by law. Bellinzoni s.r.l. declares that our product PRIHARD + is MADE IN ITALY.

DISCLAIMER All data indicated in this leaflet are the results of tests and experiments carried out in our laboratories and through reliable operators in the stone business and have to be considered reliable. Because of the many factors which can influence them, the information here reported do not constitute implicit or formal guarantees. The end user undertakes the responsibility in the usage of the product making sure to experiment the product characteristic as preventive measure