



TECHNICAL DATASHEET
571 FLOOR HARDENER METALLIC
Heavy Duty Metallic Dry-Mix Floor Hardener

DESCRIPTION:

NeoSeal® 571 Floor Hardener Metallic is a cement-based formulation prepared with blend of high strength cement, high quality graded quartz aggregates, polymer additives and some chemicals. It provides concrete surface with extremely hard wearing surface recommended for all area of heavy industrial use. It provides a highly abrasion resistance industrial surface and absorption of grease, oils, alkalis and most chemicals. Used for hardening freshly placed horizontal concrete slabs and toppings.

AREA OF APPLICATION:

- All types of industrial floors
- Heavy engineering factories, machine shops, power plant etc.
- Workshops, warehouses and garage floors
- Loading, unloading bays and gangways
- Ramps and vehicular traffic areas
- Hangers, shipyards, abattoirs and armouries
- Other concrete floors requiring high resistance to abrasion, wear and tear and impact.

TECHNICAL SPECIFICATIONS:

Properties	Results
Appearance	Grey powder
Mixed Density	1.85 – 2.05 kg/litre
Application Temperature	From 10°C to 35°C
Performance Properties	
Compressive strength after 28 days	> 75 N/mm ²
Surface Hardness	8 - 9 Moh's
Foot traffic	~72 hrs
Fully Serviceable	~7 days

AVERAGE DEPTH OF WEAR IN MM

Revolving Cycle Time	Control	N-Floor Hardener M 3 Kg/m ²	N-Floor Hardener M 5 Kg/m ²	N-Floor Hardener M 7 Kg/m ²
30 Min	0.50 mm	0.250 mm	0.210 mm	0.170 mm
60 Min	0.750 mm	0.430 mm	0.380 mm	0.330 mm

FEATURES & BENEFITS:

- Ready to use, dry shake material
- Provides high impact resistance
- Increases abrasion resistance with metallic additives
- Increases resistance to oils and grease
- Cost effective surface hardener
- Good workability for easy and fast application

NeoSeal Adhesive Pvt. Ltd.

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METHOD OF APPLICATION:

Base Concrete:

- The base concrete should have a minimum cement content of 300 kg/m³. The concrete mix should be developed to minimise segregation and bleeding.
- The concrete mix should be cohesive with slump ranging between 75 to 100 mm.
- Although there should not be any bleed water, but a wet gloss can still be clearly seen on the concrete surface, is the suitable condition for NeoSeal[®] 571 Floor Hardener M to have its first application.
- Use of water reducing admixture in concrete mix would be an added advantage.
- The base concrete should be laid and compacted in accordance with good concrete practice. Particular attention should be paid to bay edges and corners to ensure full compaction.
- Ensure that the slab is laid to obtain an accurate finished profile and that laitance build-up is minimal.
- Air Entrained Concrete is not a suitable substrate for the application of floor hardeners.

Application:

- Application time for floor hardener products is influenced by every variable which affects the placing of concrete, and therefore it substantially, depends on the prevailing conditions. Dependent on the conditions, remove the surface bleed water or allow it to evaporate.
- The application of the floor hardener can be laid when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3mm.
- Sprinkle NeoSeal[®] 571 Floor Hardener M in two application stages, first stage 60% and second stage 40%.
- When the first application of 60% material becomes uniformly dark by the absorption of moisture from the concrete, trowelling should be carried out using wooden float or power float. It is very important that the surface is not over-worked.
- When completed, the remaining 40% of NeoSeal[®] 571 Floor Hardener M is immediately broadcasted over the floor at a direction perpendicular to the first application.
- Final finishing of the floor using the blades of a power float can be carried out when the floor has stiffened sufficiently so that damage will not be caused.

Dosage / Coverage:

Application Type	Doses / Coverage
Heavy Duty	7 kg/ m ²
Medium Duty	5 kg/ m ²
Light Duty	3 kg/ m ²

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Precaution:

- Timing of the application of NeoSeal[®] 571 is very important. When it is applied too early, too much water will be absorbed by the material and this may affect its abrasion resistant. Too late, there will be insufficient moisture from the concrete to complete the hydration process of NeoSeal[®] 571. 'Crazing and pitting' may be the result of floor surface.
- As bay edges are subject to heavier impact and wear, additional treatment should be given as additional protection. Once the base concrete slab is levelled, sprinkle NeoSeal[®] 571 on a strip 100-120mm wide along the bay edges. For saw-cut control joints area should be also treated in the same manner.
- Never add water to the surface where the NeoSeal[®] 571 has been applied.

PACKAGING SIZE:

25 Kg bag

SHELF LIFE AND STORAGE:

6 months from the date of manufacturing when in sealed pack and stored under proper condition. Store in a cool & dry place

HEALTH & SAFETY PRECASUTIONS:

Wear suitable protective clothing, gloves and eye protection equipment during mixing and application. In case of contact with skin, rinse with plenty of water. In case of contact with eyes, immediately rinse with plenty of clean water. Seek medical advice, if needed. Keep out of reach of children.

WARRANTY:

The above information given based on our knowledge and performance of the material in order to help you in good faith. Every precaution is taken in the manufacturing of the product and our responsibility is limited to the quality of supplies. We guarantee the consistent high quality of our product; however, as we have no control over the site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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