MAPETOP N AR6

Pre-blended, ready-to-use dry shake hardener for concrete floors made of special well-graded quartz, Portland cement and special additives





CT
C70-F7
A6-A1fl
EN 13813

WHERE TO USE

Due to its high mechanical strength and resistance to abrasion, **Mapetop N AR6** is particularly suitable for creating anti-wear layers on concrete floors in industrial and commercial environments subject to heavy traffic.

APPLICATION EXAMPLES

· New concrete floors in workshops and industrial environments (e.g. the automotive industry)
· New concrete floors in industrial warehouses and storage areas subject to wear from forklifts, pallet trucks and other types of handling equipment (logistics stores, stockrooms, transport companies, forwarding agents)
· Floors subject to abrasion from wheeled traffic such as loading and unloading platforms and access ramps for car parks and garages
· Floors in airport hangars
· New concrete floors in commercial environments (shopping centres, shops, showrooms)

TECHNICAL CHARACTERISTICS

Mapetop N AR6 is supplied ready to use and is a mixture of well-graded extremely durable special quartz, Portland cement, and special additives according to a formula developed in the MAPEI R&D laboratories. Due to its high mechanical strength and resistance to abrasion, **Mapetop N AR6 i**s a suitable product to create monolithic industrial concrete floors subjected to intense traffic.

Mapetop N AR6 also has excellent resistance to atmospheric agents, freeze/thaw cycles, and de-icing salts.

Mapetop N AR6 meets the requirements defined in UNI EN 13813 “Screeds and materials for screeds – Material for screeds – Properties and requirements” (Appendix ZA.1, table ZA 1.1).
Screeds and structural dressing materials, such as those which help increase the load-bearing capacity of floors, are not included in this standard.

APPLICATION PROCEDURE

Sprinkling method

Mapetop N AR6 must always be sprinkled onto the surface of fresh concrete before it starts to set, and may be carried out either manually or mechanically. When applied manually it must be applied in two layers (at right angles to each application), while for the mechanical application it may be applied in one single layer.

Manual application

For the first layer, sprinkle on the **Mapetop N AR6** at a rate of between 1.5 and 2.5 kg/m^2.

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As soon as the **Mapetop N AR6** has absorbed the moisture from the concrete slab, it must be blended in and smoothed over by power floating.
As soon as this phase has been completed, sprinkle a second even layer at 90° angle to the first application of **Mapetop N AR6** over the entire surface. The rate of product application for this layer must also be between 1.5 and 2.5 kg/m².
As soon as the **Mapetop N AR6** has absorbed the moisture from the concrete slab, it must be blended in and smoothed over by power floating.

Mechanical application

If the mechanical application method is used, **Mapetop N AR6** must be sprinkled on the surface in an even, single layer at a rate of between 3 and 5 kg/m².

CONSUMPTION

Manual application: from 1.5 to 2.5 kg/m² per layer.
Mechanical application: from 3 to 5 kg/m².

PACKAGING

Mapetop N AR6 is supplied in 25 kg bags.

STORAGE

When stored in dry conditions in the original, unopened bags, **Mapetop N AR6** has a shelf life of 12 months. If stored at high temperature and or high humidity conditions the shelf life may be reduced.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapetop N AR6 is an irritant; contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be an irritant to the skin.

During use, avoid inhalation of the dust and contact with skin and or eyes. Wear suitable protective clothing such as eye protection and gloves. In case of contact with the skin or eyes, rinse with plenty of clean water. For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values) Dry shake hardener for concrete floorings in compliance with EN 13813	
PRODUCT IDENTIFICATION	
Consistency:	powder
Colour:	light grey
Bulk density (kg/m³):	1400
Maximum size of aggregate (mm):	2.5
Dry solid content (%):	100
Chloride ions content – minimum requirements ≤ 0.05% according to EN 1015-17 (%):	≤ 0.05
APPLICATION DATA (at +20°C - 50% R.H.)	
Colour of mix:	light grey
Density of mix (kg/m³):	2200
pH of mix:	> 12.5
Application temperature range:	from +5°C to +40°C

FINAL PERFORMANCE (10.5% mixing water)		
Performance characteristic	**Test method**	**Performance of product**
Compressive strength (N/mm²):	EN 13892/2	> 40 (after 1 day) > 70 (after 28 days)
Flexural strength (N/mm²):	EN 13892/2	> 7 (after 1 day) > 9 (after 28 days)
Bond strength on concrete (substrate in MC 0.40 – water/cement ratio = 0.40) according to EN 1766 (N/mm²):	EN 1542	≥ 2 (after 28 days)
Impermeability to water - Penetration depth (mm):	EN 12390/8	< 5
Coefficient of capillary absorption (kg/m²·h0.5):	EN 1062/3	< 0.1
Böhme abrasion resistance:	EN 13892/3	Class 6
Reaction to fire:	EN 13501	Euroclass A1fl

WARNING

Although the technical details and recommendations contained in this product data-sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com.

All relevant references for the product are available upon request and from www.mapei.com.

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