

-  RESIN FLOORS
-  PAVIMENTI IN RESINA
-  SOLS EN RÉSINE
-  POSADZKI ŻYWICZNE - DEKORACYJNE I PRZEMYSŁOWE



## NORDSET

### Protective, waterproofing coloured coating, for sports grounds

#### Description

NORDSET is one-component water-based product available as a specially designed colourful thixotropic paste for functional and aesthetic coating of outdoor flooring.

It is a ready to use product. With the addition of quartz sand of appropriate grain size can be employed to improve traffic resistance. NORDSET is available in standard colours white, red oxide, green oxide, or in special colours on request.

#### Where to Use

NORDSET is used for the production of long-life areas coatings on pedestrian and bicycle paths, preferably in sports facilities, playgrounds and bike paths. NORDSET is applicable as it is on asphalt substrates and, after a specific primer coat, on substrates made of concrete and rubber aggregates with organic binders.

#### Installation

##### Area Preparation

The surface must be carefully examined to be sure it is a proper basis for the application: the type of preparation to be made shall be chosen according to the existing conditions of the areas.

- New asphalt: Verify that the mat is sufficiently cohesive and fill cracks, holes or small depressions with MALTA FIX. Clean the surface of leaves, dust or sand (in case of a pressure wash wait for the drying of the substrate).
- Concrete: in case of new quartz finished casting and mechanical polishing, substrate must be scarified, or peened to achieve the optimal coupling of a diffusion layer (W3) against rising damp from the bottom. With a new not yet hardened casting (striking off at the end) the best treatment is sanding with a monobrush equipped with 24-36 grit emery cloth, provided that there are not any soft concrete layers on the surface because of bleeding phenomena, in which case all area must be scarified before laying. With old industrial floors, treatment must be aimed at removing dust, dirt, grease, oil, old adhesive or paint, efflorescence, rust, mildew and other foreign material. Holes and depressions of the surface must be compensated with MALTA FIX or RASANTE 2000 2K, depending on the thickness of the fill to be made.

##### Material Application

###### 1) Outdoor application on asphalt layer:

- NORDSET can be applied by roller or directly sprayed on the substrate without a primer.  
Consumption/dosage: 0.8 to 1.0 kg/sqm.

###### 2) Outdoor application on concrete:

- apply with a roller a coat of NORPHEN SW SOLID primer diluted 1:4 with water diluted NORPHEN SW SOLID shall be carried out pouring component B into component A, thoroughly mixing both of them until the mixture is milky white, and only then adding the water to the mixture previously prepared (by diluting each single component before mixing);
- after 1 hour, and no later than 24 hours after the application of diluted NORPHEN SW SOLID, W3 loaded with 100% by weight (on A+B+C) of 0.3-0.9 quartz sand shall be applied to smooth the area, with a consumption/dosage of about 1.2 kg of product per square meter, in addition to the sand.
- broadcast to excess with 0.3-0.9mm quartz sand the smoothing layer when still wet, for a coverage of about 4 kg/m<sup>2</sup>.
- the next day, remove loose sand sanding with a 24-36 grit emery cloth and remove dust;
- only one NORDSET coat, loaded with 0.1 to 0.6 mm quartz sand (2 parts by weight of NORDSET with 1 part by weight of quartz sand), is to be applied with a spatula;
- when dry apply a second smoothing layer of pure NORDSET;
- finish with 1 coat of unloaded NORDSET, using a roller.

Resins Consumption/Dosage:



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NORPHEN SW SOLID (A+B): 0.05 kg/m<sup>2</sup>  
 W3 (A+B+C): 1.2 kg/m<sup>2</sup>  
 NORDSET: 1.3 to 1.5 kg/m<sup>2</sup>.

3) *Application mix of rubber/organic binder (such as flooring for the athletics track):*

- of the dry surface with a roller to apply a coat of PRIMER SOLPLAST;
- within half an hour NORDSET applied by roller or spray in different hands spaced as little as possible (enough to allow foot traffic to the operator) until the designed thickness.

Coverage:

PRIMER SOLPLAST: 0.07 - 0.08 kg/m<sup>2</sup>  
 NORDSET: 1.2 kg/m<sup>2</sup>.

4) *Indoor Application on Concrete:*

- In the absence of rising damp phenomena from the substrates, proceed as in step 3).

#### Product Application Methods

Prior to application mix the product in the container with a professional mixer, in order to disperse any existing small debris from the bottom of the bucket;

**Trowel application:** pour the prescribed amount of quartz sand, mix and proceed;

**Roller application:** dilute with 5-10% water to achieve the fluidity needed for laying down the material;

**Spray application:** the product should be used with nozzles and machines equipped with larger filters than those used in painting: up to 15% water can be used in diluting the product depending on the type of pump (nozzle 21-23).

#### Final Treatment of the coated area

After application, the product can be slightly sticky, especially if the installation surface is poorly absorbent or when applied at high temperatures. For immediate use or if in need of any use of the area before the time required for the natural disappearance of this phenomenon, sprinkle the applied product with NORDSET FLOUR. NORDSET FLOUR shall be spread evenly over the entire surface with a clean broom and left on the surface for at least 12 hours. The estimated consumption/dosage is about 1.0 to 1.2 kg/m<sup>2</sup>. After 12 hours NORDSET FLOUR may be removed by suction or sweeping.

#### Warnings and Special Instructions

- Do not apply at temperatures below +8°C.
- Any laying work must necessarily stop in case of impending rain, snow or fog.
- Use fresh water to remove wet product from tools.
- See the Material Safety Data Sheet (MSDS).



#### Specifications

Bulk Density, UNI 8310	g/cm <sup>3</sup>	1.30 ± 0.05
Apparent dynamic viscosity (ASTM Brookfield spindle 5, 100 RPM, 23°C 50% RH), UNI EN ISO 2555	Pa·s	150 ± 30
Superficial drying time (400 mm film, ISO 2808), UNI EN ISO 1517	min	30 ± 10
Minimum application temperature	°C	+ 8
Impermeability to water (400 mm films), UNI EN 1928	kPa	500 ± 10
Permeability to water vapour, DIN 52615	m	5000 ± 500
Chemical resistance to NaOH (10% in water) at +30°C, 400 m, dry films UNI 8298-4	days	28 Swelling
Resistance to Abrasion, UNI 8298-9	mg	< 200
Cold flexibility, DIN 52123	°C	< 0

Note: test methods are in accordance with the standard referred to in the table.

#### Labelling, packaging and storage



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# NORDSET

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Hazard symbols	---
Packaging	PE 10 or 20 kg bucket
Storage	24 months in original packaging, in a covered, dry area at temperatures between +4°C and +30°C.

**NORDSET FLOUR**  
Filler for "anti-tack" treatment of NORDSET areas

### Description

NORDSET FLOUR is a mineral very fine-grained flour for "anti-tack" treatment (elimination of any after tack) of areas realized with NORDSET.

### Application

Spread NORDSET FLOUR directly on the area broadcasting it to excess in order to obtain an even coating of the area. The product can be spread onto the floor using a broom to even out the distribution. After at least 12 hours without rain, remove the product by sweeping. Once recovered the product can be reused several times. READ WARNINGS CAREFULLY.

**Coverage:** 1,0-1,2 kg/m<sup>2</sup>

### Technical Data Sheet

Apparent bulk density (ABD), UNI EN ISO 787-11	g/cm <sup>3</sup>	1.0 ± 0.2
Bulk Density, UNI EN ISO 787-10	g/cm <sup>3</sup>	2.61 ± 0.05
pH (22 ± 1°C in water), UNI EN ISO 787-9	/	8.0 ± 0.1
Quartz content (SiO <sub>2</sub> )	Wt%	> 96
Max grain size 44 micron	Wt%	98

Note: The test method refers to regulations as indicated on the table

### Warnings

- The application must necessarily be postponed in case of threat of rain or snow.
- The product is harmful by inhalation, when using it wear a dust mask in compliance with EN149: 2001 Class FFP3D (eg mask 3M model 8835).
- See the Material Safety Data Sheet.

### Labelling, packaging and storage

Hazard symbols	X <sub>n</sub>
Packaging	20 kg PE bucket
Storage	24 months in original packaging, in a covered and dry. At temperatures between +0 C to +35°C.

### Legal notice

Tips on how to use our products match the current state of our knowledge and do not imply any assumption of responsibility or/and liability for the final result of works. Therefore, customers are not exempt from the responsibility to verify the suitability of products for use and final aims through preliminary tests. The website [www.nordresine.com](http://www.nordresine.com) contains the latest revision of this datasheet.

### Edition

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