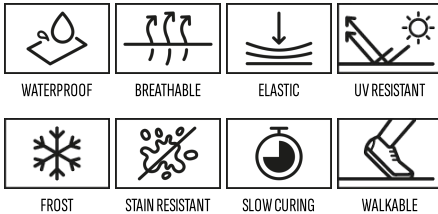


NORDSET

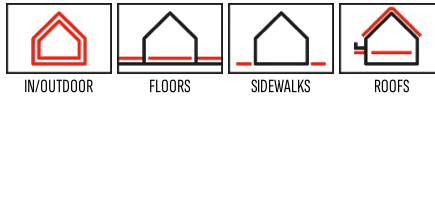
Colored, protective,
waterproofing coating for
playgrounds



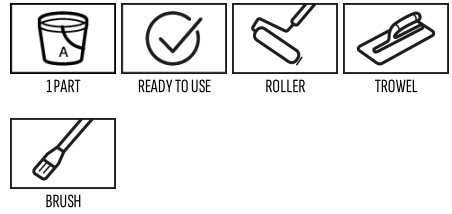
TECHNICAL FEATURES



FIELD OF APPLICATION



APPLICATIONS



Description

NORDSET is a one-component water-based product in the form of colored thixotropic paste, specially designed for the functional and aesthetic coating of outdoor flooring. With the addition of quartz sands of suitable grain size (see below), anti-slip and traffic-resistant characteristics can also be achieved.

Colour

NORDSET is available in the following colors:

- GRIGIO (grey)
- VERDE OSSIDO (green oxide)

Nord Resine also produces colors upon specific request.

For further information, please contact the Nord Resine Technical Service at color@nordresine.com.

Field of application

NORDSET is used for the realization of durable coatings on walkable surfaces and cycle paths in asphalt and concrete.

NORDSET is particularly suitable for cladding surfaces of sports facilities, playgrounds and cycle paths.

Advantages

- NORDSET is single-component and ready-to-use.
- NORDSET can be applied with a spatula, brush, roller or spray. NOTE: For spray applications, request the special filtered formulation.
- NORDSET is a low-cost, long-lasting product.
- NORDSET is directly applicable on asphalt substrates.
- NORDSET can be applied on concrete substrates and rubber conglomerates after treatment with a specific adhesion promoter.

NORDSET

General preparation of the laying surface

- The substrate must be carefully examined to be sure that it is a suitable and structurally sound base.
- Perform preliminary surface treatment for the purpose of removing dust, dirt, grease, oil, old adhesives or paints, efflorescence, rust, mold and other foreign materials and to create a rough surface suitable for the adhesion of NORDSET.

This treatment should be decided depending on the conditions in which the surface is located and can be:

- pressure washing with hot water;
- acid washing;
- sanding;
- diamond grinding;
- scarification;
- shot peening.

Specific preparation of the laying substrate

► *New asphalt*

- Check that the bituminous mat is sufficiently cohesive and that it has already cured correctly.
- If necessary, the slopes can be modified with GROVE PRIMER ECO and GROVE MASSETTO (see Technical Data Sheets).
- Plug any holes or holes with MALTA FIX (see Data Sheet).
- Clean the surface of leaves, dust or sand (in the case of a pressure wash, wait for the substrate to dry).

► *Mechanical application*

- The substrate must be shot peened or scarified.
- Apply by roller a coat of SW SOLID diluted with 4 parts by weight of water (consumption of A+B about 50 g/m²).
- The next day, remove all non-adherent sand, sand with 24-36 grit emery cloth and dust off.

► *ARAMID FIX-FLEX D10 - IDENTIFICATION DATA*

- Thoroughly clean the surface of dust, dirt, grease, oil, old adhesives or paints, efflorescence, rust, mold and other foreign materials.
- Repair holes and depressions in the surface with MALTA FIX or with GROVE PRIMER ECO and GROVE MASSETTO (see Technical Data Sheets), depending on the thickness of the coating to be carried out.
- Apply by roller a coat of SW SOLID diluted with 4 parts by weight of water (consumption of A+B about 50 g/m²).
- After 1 hour (and no later than 24 hours) apply a skim coat (vapour barrier) of W3 IMPERMEABILIZZANTE (see Technical Data Sheet) loaded with 100% by weight on A+B+C of quartz sand QUARZO NATURALE 0.3 – 0.9.

The consumption of W3 IMPERMEABILIZZANTE (A +B+C) is about 1.2 kg / m².

► *Mechanical application*

- The substrate must be shot peened or scarified.
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The consumption of W3 IMPERMEABILIZZANTE (A +B+C) is about 1.2 kg / m².

- Dust the still fresh product with 0.3 – 0.9 mm quartz sand - QUARZO NATURALE - for a consumption of about 3 – 3.5 kg/m² of sand.
- The next day, remove all non-adherent sand, sand with 24-36 grit emery cloth and dust off.
- Proceed with the installation of NORDSET (see par. Product Application ► Exterior and interior application on concrete).

► *Application on rubber/organic binder conglomerate (e.g. athletics track flooring)*

- The most suitable treatment is sanding with a single disc machine reinforced with 24-36 grit emery cloth.
- Apply by roller a coat of SW SOLID diluted with 4 parts by weight of water (consumption of A+B about 50 g/m²).

NORDSET

- After 1 hour (and no later than 24 hours) apply a skim coat (vapour barrier) of W3 IMPERMEABILIZZANTE (see Technical Data Sheet) loaded with 100% by weight on A+B+C of quartz sand QUARZO NATURALE 0.3 – 0.9.

The consumption of W3 IMPERMEABILIZZANTE (A+B+C) is about 1.2 kg / m².

- The next day, remove all non-adherent sand, sand with 24-36 grit emery cloth and dust off.
- Proceed with the installation of NORDSET (see par. Product Application • Exterior and interior application on concrete).

► ARAMID FIX-FLEX D10 - IDENTIFICATION DATA

- Thoroughly clean the surface of dust, dirt, grease, oil, old adhesives or paints, efflorescence, rust, mold and other foreign materials.

- Repair holes and depressions in the surface with MALTA FIX or with GROVE PRIMER ECO and GROVE MASSETTO (see Technical Data Sheets), depending on the thickness of the coating to be carried out.

- Apply by roller a coat of SW SOLID diluted with 4 parts by weight of water (consumption of A+B about 50 g/m²).

- After 1 hour (and no later than 24 hours) apply a skim coat (vapour barrier) of W3 IMPERMEABILIZZANTE (see Technical Data Sheet) loaded with 100% by weight on A+B+C of quartz sand QUARZO NATURALE 0.3 – 0.9.

The consumption of W3 IMPERMEABILIZZANTE (A+B+C) is about 1.2 kg / m².

- Dust the still fresh product with 0.3 – 0.9 mm quartz sand - QUARZO NATURALE - for a consumption of about 3 – 3.5 kg/m² of sand.

- The next day, remove all non-adherent sand, sand with 24-36 grit emery cloth and dust off.

- Proceed with the installation of NORDSET (see par. Product Application ► Exterior and interior application on concrete).

► Rubber/organic binder conglomerate (athletics track flooring)

- Thoroughly clean the surface of dust, dirt, grease, oil, old adhesives or paints, efflorescence, rust, mold and other foreign materials.

- On a dry substrate, apply a coat of PRIMER SOLPLAST PU (see Technical Data Sheet) as an adhesion promoter.

- Within half an hour of applying PRIMER SOLPLAST PU proceed with NORDSET (see par. Product application ► Application on rubber/organic binder conglomerate (e.g. athletics track flooring)).

Product preparation

- NORDSET is ready to use.

- Before application, thoroughly mix the product in the container with a professional low-speed mixer in order to make it homogeneous.

NOTE: the possible presence of funds or sediments in the product is to be considered normal.

Product application

Depending on the use and installation medium NORDSET can be applied to:

→ smooth steel trowel;

→ roller;

→ spray.

► Outdoor application on smooth asphalt carpet

- NORDSET can be applied by roller or brush directly on the substrate without pre-treating the surface (consumption 0.8 – 1.2 kg/m² depending on the roughness of the substrate).

- For spray application, request the special formulation FILTERED to 125 microns.

Use nozzles and machines equipped with 200 micron mesh filters.

To achieve greater pumping fluidity, water up to 15% by weight can be added.

► Application on rubber/organic binder conglomerate (e.g. athletics track flooring)

- Within half an hour of applying PRIMER SOLPLAST PU, apply NORDSET by roller or spray several coats of product until the designed thickness is reached.

NOTE: The time between one hand and the other must be as short as possible, sufficient to allow the

NORDSET

operator to walk on it.

- The consumption of NORDSET will be at least about 1.2 kg/m² per coat.

► *Outdoor application on very rough asphalt carpet*

- In the case of a very rough asphalt surface, proceed as follows:

→ First coat: transfer NORDSET to a clean container of suitable size, add to 1 part by weight of NORDSET about 1 part by weight of NATURAL QUARTZ sand 0.3 to 0.9. Mix well and spread on asphalt surface with smooth steel trowel.

→ Second coat: apply NORDSET as it is on a roller. If necessary, dilute with 1 – 10% by weight of water to achieve the desired fluidity.

- The total consumption of NORDSET will be about 1.6 – 2.0 kg/m².

► *Exterior and interior application on concrete*

On a carefully prepared substrate, apply 3 coats of product as follows:

→ First coat: trowel-apply one coat of NORDSET loaded with 0.1 to 0.6 NATURAL QUARTZ sand (2 parts by weight of NORDSET with 1 part by weight of quartz sand).

→ Second coat: as soon as the first coat is dry, apply a second coat of NORDSET as it is (without sand).

→ Third coat (finish): finish with 1 roller coat of NORDSET as it is.

- The total consumption of NORDSET will be approximately 2.0 kg/m².

► *Final treatment of the coated surface*

- At the end of drying, NORDSET may have a slight residual stickiness, especially if the laying surface is poorly absorbent or when applied at high temperatures.

- If it is necessary to put the surface coated with NORDSET into operation in a very short time, wait until it has fully matured, then sprinkle it with about 1.0 – 1.2 kg/m² of NORDSET FLOUR (see Technical Data Sheet).

For greater effectiveness, evenly distribute NORDSET FLOUR over the entire surface using a clean broom.

- After 12 hours, remove NORDSET FLOUR excess by vacuuming or sweeping.

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
On smooth asphalt carpet	0,8	1,2	kg/m ²	-
On very rough asphalt carpet	1,6	2,0	kg/m ²	
On concrete indoors or outdoors	2,0	2,2	kg/m ²	
On support in rubber conglomerate / organic binder type athletics track	1,2	1,5	kg/m ²	

Tool cleaning

- Fresh product: cleaning with water (also hydrowashing).
- Hardened product: mechanical removal, specific paint strippers (GEL STRIPPER or FLUID STRIPPER) or heat gun.

Useful tips for laying

- Do not apply at a temperature below +8°C.
- The application must necessarily be interrupted in the event of a threat of rain, snow, frost or fog.
- Carefully read the Safety Data Sheets of all products included in the NORDSET system before use.

Technical Data

NORDSET

► PRODUCT IDENTIFICATION DATA		value
Density at 23°C, EN ISO 2811-1	kg/L	1,30 ± 0,05
pH (potentiometric method) at 23°C, ISO 976	-	9,0 ± 0,3
Brookfield apparent dynamic viscosity (23°C / 50% RH; spindle ASTM#5, 10 rpm), EN ISO 2555	Pa*s	150 ± 30
Dry residue (105°C, 1 hour), ISO 3251	-	(70 ± 3)%
Appearance	-	Coloured viscous liquid
Odor	-	Characteristic
► APPLICATION DATA AND FINAL PERFORMANCE		value
Application temperature	°C	From +8 to +35
Maximum atmospheric humidity for application	-	(80 ± 5) %RH
Surface drying time, dry thickness 0.40 ± 0.05 mm, (23°C, 50%RH), EN ISO 9117-3	Min	30 ± 10
Water impermeability, dry thickness 0.40 ± 0.05 mm, test time 24 hours, EN 1928	kPa	500 ± 10
Water vapour permeability (μ), dry cup method, dry thickness 0.40 ± 0.05 mm, DIN 52615	-	5000 ± 500
Chemical resistance to NaOH (10% in water) at +30°C, dry film of 0.40 ± 0.05 mm, UNI 8298-4	days	28 (bulge)
Wear resistance – Taber method, grinding wheel CS17, 1000 rpm, load 1 kg, EN ISO 5470-1	Mg	192 ± 10
Cold flexibility, EN 495-5	°C	-2,0 ± 0,5

Product storage

- 24 months in the original closed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +4°C and +30°C.
- Protect the product against frost.

Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
GRIGIO (grey)	plastic bucket - 10 kg	NO	60 buckets		-
GRIGIO (grey)	plastic bucket - 20 kg	NO	33 buckets		-
OXIDE GREEN	plastic bucket - 10 kg	NO	60 buckets		-
OXIDE GREEN	plastic bucket - 20 kg	NO	33 buckets		-
TIER 1 COLOUR	plastic bucket - 10 kg	NO	60 buckets		-
TIER 1 COLOUR	plastic bucket - 20 kg	NO	33 buckets		-
OXIDE GREEN	plastic bucket - 10 kg	NO	60 buckets		-
GRIGIO (grey)	plastic bucket - 20 kg	NO	33 buckets		-
OXIDE GREEN	plastic bucket - 10 kg	NO	60 buckets		-
GRIGIO (grey)	plastic bucket - 20 kg	NO	33 buckets		-
OXIDE GREEN	plastic bucket - 10 kg	NO	60 buckets		-
GRIGIO (grey)	plastic bucket - 20 kg	NO	33 buckets		-

ADR legend:

NO = NON-DANGEROUS goods

P* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

Si = DANGEROUS Goods

NORDSET

LEGAL NOTES

Any advice concerning the methods of use of our products reflects the current state of knowledge and does not imply any guarantee and/or responsibility as to the outcome of the application. Consequently, the customer must verify the product's suitability for the intended use and purposes by testing the product in advance. The Internet website www.nordresine.com contains the latest revision of this technical sheet: in case of any doubts, verify the date of revision (where missing, use the date of issue) by consulting the "PRODUCTS" section.

EDITION

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