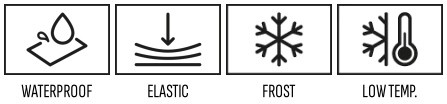
GRIP 1000

Flexible, two-component polyurethane armor coating, fast cross-linking, solvent-free

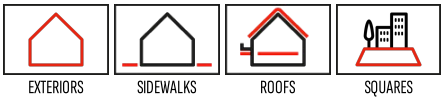
CE
CONCRETE PROTECTION
EN 1504-2 (C)
PRINCIPLES
MC-IR

CE marking:
→ EN 1504-2 (C) • Principles: MC-IR

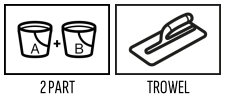
TECHNICAL FEATURES



FIELD OF APPLICATION



APPLICATIONS



Description

GRIP 1000 is a bi-component flexible polyurethane coating with rapid cross-linking for creating reinforcement layers on polyurea and polyurethane membranes of the TRAFFIDECK FLEX or NORDPUR ROOF series.
GRIP 1000 is used as a mandatory preparation coat on BETONGUAINA and BETONGUAINA.S before applying AQUALAMINE systems.
GRIP 1000 is solvent-free so it does not shrink during cross-linking.
GRIP 1000 when applied in combination with quartz, it creates durable and non-slip surfaces.

CE Marking

► EN 1504-2
GRIP 1000 meets the principles defined by EN 1504-9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for use and systems") and the requirements of EN 1504-2 ("Concrete surface protection systems") for the class:
→ *MC-IR* *
• For Principle 2 (MC) - Moisture control: 2.2 Coating (C), ZA.1e.
• For Principle 8 (IR) - Increasing Resistivity.

* tested stratigraphy: FONDO SL sprinkled with excess quartz 0.3-0.9 mm – TRAFFIDECK FLEX 2000 SG: min 1 kg/m² – TRAFFIDECK GRIP 1000: approx. 1 kg/m² - SPRINKLING with excess QUARTZ 0.3 –0.9 mm – TIPEWALL: approx. 250 µm.

Colour

GRIP 1000 is available in NEUTRO (beige/cream).

Field of application

GRIP 1000 is specially formulated for use in combination with the waterproof membranes of the TRAFFIDECK FLEX or NORDPUR ROOF line, to obtain - on concrete structures - a driveway elastomeric system with high crack-bridging capacity.
Typical fields of application for GRIP 1000 are:
• slabs intended for parking;
• sidewalks, pedestrian walkways, balconies, ramps, pontoons, bridges, platforms and stairs;
• rooms where mechanical processing is carried out.

GRIP 1000

GRIP 1000 is even prescribed as a mandatory adhesion promoter on BETONGUAINA and BETONGUAINA.S before the application of AQUALAMINE systems.

Advantages

• GRIP 1000 is a two-component product with rapid cross-linking that makes it possible to speed up the construction and opening to traffic of pavements in areas subject to vehicular traffic.
• GRIP 1000 contains no solvents and is a zero-shrinkage product during cross-linking.
• GRIP 1000 is able to cross-link at temperatures below 0°C.
• GRIP 1000 gives rise to flexible, durable, waterproof coatings with a high degree of grip (anti-slip properties).

Specific preparation of the laying substrate

► *As a reinforcing layer in TRAFFIDECK or NORDPUR ROOF systems:*

Before proceeding to the application of GRIP 1000:
• Make sure that the substrate (typically concrete or sheet metal) has been coated with a two-component liquid membrane TRAFFIDECK FLEX or NORDPUR ROOF (see Technical Data Sheets).
• Remove loose objects, oils and dust from the membrane surface.

► *As an adhesion promoter for applying AQUALAMINE on BETONGUAINA or BETONGUAINA.S:*

• Before applying GRIP 1000, check that the substrate moisture is not higher than 3.5% (calcium carbide, CM, method according to UNI 10329, DIN 18560-4 or ASTM D4944.

Product preparation

• Stir Part A until a liquid of uniform color and consistency is obtained.
• Dose the hardener (comp. B) directly into the Comp. A and mix everything for 15 – 20 seconds with a professional mixer at low speed.
• Given the speed at which the product is cross-linked, proceed with the application as soon as possible.

Product application

► *Spreading the A+B mixture*

• The A+B mixture must be immediately spread on the membrane using a notched rubber doctor blade and a notched metal trowel.
The minimum consumption of GRIP 1000 shall be approximately 0,48 kg/m² (approximately 0,4 mm resin thickness).
• Within 10 minutes of applying the A+B mixture, dust the surface with the selected inert material (perfectly dry).
NOTE: on inclined surfaces (ramps) wait a longer time (15 – 20 min) before dusting to avoid inhomogeneity of thickness.

► *Instructions to obtain a floor with slip resistance class R9 according to DIN 51130*

• To obtain a R9 slip resistance class, sprinkle about 4 kg/m² of NATURAL QUARTZ sand 0.3-0.9 mm.
• After 2 – 4 hours at +23°C, sand the surface of the dusting and remove the excess of detached QUARTZ.
• Proceed with the application of TIPEWALL (two-component polyurethane finish with non-yellowing solvent) in the following ways:
→ With PLASTIC SPATULAS mod. L 400: to saturation of porosity with a consumption of 650 to 720 g/m² (depending on application temperature).
→ SPRAYING WITH AIR-LESS APPARATUS: at porosity saturation with a consumption of about 500 - 580 g/m² (depending on the application temperature).

Consumption

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GRIP 1000

type of application	minimum consumption	maximum consumption	u.m.	notes
Depending on the roughness of the substrate	0,48	0,80	kg/m²	(1)

(1) The product yield is about 1.20 to 1.22 kg/m² per mm thickness.

Tool cleaning

• Fresh product: cleaning with ACETONE, alcohol, epoxy thinner or nitro thinner.
• Hardened product: mechanical removal, specific paint strippers (GEL STRIPPER or FLUID STRIPPER) or heat gun (preferred).

Useful tips for laying

• At temperatures above +26°C, there is a marked increase in reaction speed. This reduces the useful time for using the product.
• Carefully read the Safety Data Sheets of all products involved in the application cycle of GRIP 1000 before use.

Technical Data

► PRODUCT IDENTIFICATION DATA		value
Density at 23°C (Component A), EN ISO 2811-1	kg/L	1,18 ± 0,02
Density at 23°C (component B), EN ISO 2811-1	kg/L	1,22 ± 0,02
Density at 23°C (mixture A+B), EN ISO 2811-1	kg/L	1,20 ± 0,03
Appearance (Component A)	-	Cream-coloured opaque liquid
Appearance (Component B)	-	Transparent brown liquid
Appearance (mixture A+B)	-	Beige/cream opaque liquid

► APPLICATION DATA AND FINAL PERFORMANCE		value
Mixing ratio by weight (A:B)	-	2 : 1
Application temperature	°C	from 0 to +35
Pot-life (thermometric), +23°C to +40°C, EN ISO 9514	Min	20 ± 1
Surface drying time (23°C, 50%RH), thickness 3 mm, EN ISO 9117-3	Hours	1,0 ± 0,2
Average waiting time for subsequent overapplication	Hours	2 – 3
Full hardening	Hours	5
Hardness Shore D, A+B, maturation 72 hours at +25 °C, 70 %RH), DIN 53505	-	(45 ± 2)°
Tensile elongation (form 2, size 25x150x0,7 mm, EN ISO 527-3), tensile speed 20 mm/min, EN ISO 527-1	-	(80 ± 5)%
Tensile tensile strength (form 2, size 25x150x0.7 mm, EN ISO 527-3), tensile speed 20 mm/min, EN ISO 527-1	Mpa	12 ± 2
Slip resistance class (with NATURAL QUARTZ sand dusting 0.3-0.9 (4 kg/m²) and TIPEWALL finish (600 g/m² spray), DIN 51130	-	R9

► TECHNICAL DATA IN ACCORDANCE WITH EN 1504-2 *		value
Permeability to water vapor, equivalent air thickness SD, total cycle thickness = (5.26 ± 0.05) mm, EN ISO 7783	m	45 ± 3 (Class II)
Water vapor permeability, μ, total cycle thickness = (5.26 ± 0.05) mm, EN ISO 7783	-	8500 ± 600
Capillary absorption and water permeability, total cycle thickness = (5.26 ± 0.05) mm, EN 1062-3	kg/(m²·√h)	0,0090 ± 0,0009
Direct tensile adhesion, total cycle thickness = (5.26 ± 0.05) mm, EN 1542	Mpa	2,2 ± 0,1

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NOTES

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Product storage

• 12 months in the original sealed packaging, in a dry, covered area, protected from direct sunlight and at a temperature between +5°C and +30°C.
• Keep in a dry place.

Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	*NOTES*
-	(A+B) - 15 kg	NO	-	A = 10 kg (steel bucket) B = 5 kg (jerry can)	-

ADR legend:

NO = NON-DANGEROUS goods

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

Sì = DANGEROUS Goods

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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