



# GUAINA +

Resin liquid waterproofing fiber-reinforced from activate with cement Portland, to high walkability and tileable

## Description

GUAINA+ is a coating waterproof liquid fiber-reinforced, constituted from the combination Of different emulsions of resins with characteristics chemical-physical well defined that with the addition Of cement traditional Portland 32.5 (even to the 20% on the weight total – eg. GUAINA+ Fibre from 16kg with 4kg of cement), realize a cloak perfectly waterproof And Of excellent elasticity, highly resistant to rays UV, to the pedestrianization, low or high temperatures, cycles Of frost And Of- thaw, tileable directly, by means of the use of the glue NOI CM KOLFLEX, or similar, of category C2TE S1.

The fibers contained In the product, allow the application avoiding there pose in work Of further armor, reinforcing directly The material And guaranteeing the characteristics Of walkability and the adequate resistances to the ordinary movements structural.

To the end Of improve the resistances of the material, if The worksite the required, and possible to interpose the armor, in fiber Of glass type MAT 225 or NET PE 66.

## Use

GUAINA+ can to be employee on any support Also slightly humid. And the system waterproof more suited for paving stones solar, roofs, terraces, balconies, covers in type, exposed directly to the agents atmospheric Also walkable or from to cover with coverings ceramics.

## Ways to use

### Quality from the surface

The support must to result mature, to be structurally stable and free from dirt, efflorescence-sciences, excessive humidity, oils, fats etc.

They go removed Furthermore, with adequate machinery, Everything is fine trace Of previous coverings, And mate-rials in away Of detachment That may to compromise the adhesion of the product.

The consumption indicated I am from consider on surface perfectly smooth And to the net Of possible dilutions.

### Preparation from the surface

#### • Support in cement, concrete, tiles in grit And cement, (or supports absorbents in general)

And necessary to execute a accurate cleaning of the support, to remove parts inconsistent, dust, mosses, oils and whatever else could be provoke a poor adhesion of the coating, intervene Therefore with sander (single brush) accompanied from disc abrasive.

If necessary, to execute a washing acid (NAIDROP OR SUPERNET) or basic (type SUPERA WAX). To followed of the washing, wait 7-10 days to a temperature Of approx. 20 °C And proceed to the application of GUAINA+.

In case Of support in cement, it will be necessary first of all check The degree Of roughness and The “Ph” of the same; in the event that this is higher than 11, it is mandatory to proceed with the pose in work of the bottom anchoring first resin Barrier to the Steam (second form technical-(about).

Impregnate the substrate with several coats of NAI 45 with a final consumption of approx. 800 g/m<sup>2</sup>. Furthermore, in the eventuality The support results to be excessively raw, to carry out a ra-saturated by means of smoothing cementitious NOI CM RASANTE ULTRA or regularize it with NAI CM RE-LEVEL (Second relative form technique), in function of employment, previous apply-tion Of a bottom NAI BY 19.

For the waterproofing Of tubs, tanks And swimming pools, in proximity from the joint Between flooring and wall it is necessary before realize from the appropriate shells with NAI RETAN GUSCE. Before of start the waterproofing And necessary to prime And consolidate there support with a hand to roller of GUAINA+ diluted with The 15% Of waterfall, or in alternative with Nai 45 or Nai 45H. (In followed at the dilution with waterfall the fibers Yes “they will separate” from the product. For facilitate there drafting and for avoid possible “accumulations” during the application the fibers they will be removed).

• **Resin, tiles in clinker, single-fired, stoneware And everyone the products to Bass candies absorbent**

Check the state Of adhesion from the tiles to the screed. In case Of non-adherence, remove- king the/the tile/s And fill The empty by means of Malta premixed type NAI CM RE-LEVEL (second form technique), To roughen all there surface with sander (single brush) cor- drafted from disc abrasive and/or with flexible accompanied with cup diamond.

If necessary , then perform an acid wash using NAIDROP or SUPER NET. In This case wait approx. 7-10 days to a temperature Of 20°C Before of the application of GUAINA+ Often, in the terraces Of big surface, covered in tiles, Yes Note there presence Of joints in PVC that must be treated beforehand. (for information contact our technical office) Done there preparation of the support, And necessary apply a hand Of Nai 45 or Nai45 H (180-200 gr/m<sup>2</sup>).

• **Supports in presence Of humidity residual Of nature cementitious or ceramic**

In case Of humidity residual, foresee there pose in work Of exhalers Everything is fine 25-30 m<sup>2</sup>, in way from allow And vehicular the evaporation of humidity contained In the support cementitious. For the installation of the same remove For a space even at the its circumference Of base, the thickness of the supports underlying (tiles and/or screed) until to reach it, taking care not to damage it. Position the extra-bearer and restore the previously removed surface with cement mortar such as "NaiCM Ripristino".

To followed of suitable preparation of the supports (as on reported), the which they will have to to result stable And absorbents, apply in replacement of the primer generally expected, The bottom an- chora For surfaces wet called "Primaresina Barriera vapore" (350 g/m<sup>2</sup>) second- do the mode from the relative form technique, in way from avoid swellings of the successes-I want system waterproofing.

• **Sheath bituminous traditional and/or slate**

Check the state from the sheath bituminous and to make sure That is laid down from at least 8 months: The possible swellings they must to be cut centrally And subsequently rewelded by means of torch to fire or sealed with FLEXBIT There same operation must to be ese- guide on implications verticals And long the joints (if there sheath bituminous And in advanced state Of degradation And detached totally from the support must to be removed). Proceed with ac- carefully clean the surface and apply an anchoring primer with a roller: NAI 45 or NAI 45 H(180-200 gr/m<sup>2</sup>).

In case Of sheath bituminous slate, Before Of All remove the slate in excess Not perfectly cohesive. After the anchoring base, apply GUAINA+ considering the sheath slate a increase in the consumption (Of approx. 600-700 gr/m<sup>2</sup>, from apply to roller or spa- (tola) due to the application on a surface irregular.

On sheath slate The bottom anchoring can to be replaced with an application Of NAILA-STIC BIT (500 gr/m<sup>2</sup>).

• **Restore Of possible slopes**

Check That The support is perfectly seasoned, clean, dry And deprived Of parts meet- sistent. Also make sure that the substrate is not subject to rising damp. Any form Of dirty which anointed, traces Of dust or residues Of processing previous must to be totally removed, proceed at the preparation And at the pose Of NAI CM RE-LEVEL as from form technique.

• **Treatment possible joints**

THE supports on which Yes they apply the coverings waterproofing to times Not I am continue, being present the different typologies Of joints typical from the floorings. Therefore, how much- do There Yes prepare to realize a waterproofing, such points Of discontinuity they must to be identified And considered in phase Of design of the intervention. While, in Everything is fine case, the shaped surfaces " U " or "THE" They should be divided into square or rectangular shaped surfaces For avoid the possible movements structural may to compromise The coating. The correct treatment of the joints, will allow Of maintain unchanged The system waterproof. (contact- tare The ours Office Technician).

#### • **Treatment of the corners**

For guarantee a improve treatment and a major estate in the corners Between structures in elevation (parapets, reeds chimneys, plants passers-by etc...) And flooring, Before of the application of GUAINA+ And advisable eliminate the corner live realizing a light wake perimeter of dimensions minimum 2 cm x 2 cm by means of NAI SIL POLIMERO or FLEXI-BIT.

#### **Preparation of the product**

Deposit The Right quantity Of cement Portland 32.5 (even to the 20% on the weight total) within of GUAINA+ Fibre and mix carefully with mixer to Bass number Of turns mu- finished Of specific impeller, until to That the two components are perfectly amalgamated And Not youis presence Of lumps.

#### **Application of the material consequent at the preparation from the surface**

Apply The product to spatula smooth, roller, brush or spray crossing the hands so that av- come a correct distribution from the fibers.

#### • **Application to roller and/or brush**

Apply The product in at least 4 hands And in the consumption expected, waiting Between a hand And the other one a time sufficient to allow the hardening of the product but Not beyond the 48-72 hours (if more, apply a coat of NAI 45 or NAI 45H). Use long-haired corded rollers For ensure a correct thickness of the coating.

#### **Application with armor**

Apply a hand Of product, to fresh, to place the armor in fiber of glass and impregnate- there carefully with a next hand of GUAINA+, avoiding there training of bubbles from- laugh. We recommend the waterproofing Of all the structures in elevation (walls perimeter), pre-cutting stripes Of armor from 25-30 cm, That cover there wall vertical Of at least 10-15 cm And there surface horizontal Of at least 10 cm. Subsequently Yes can proceed with there on-surface horizontal, with the trick Of to pose there new armor superimposed Of approx. 5 cm to that stretched out in precedence.

To drying happened of the layer Of product employee For the armor, to execute there carteg- surface finishing using a sanding machine (single brush), equipped with a disc abrasive, in order to remove any imperfections on the surface. The product must be applied in at least four hands, to distance Of 3-4 hours moon on the other, And Anyway preferably Not beyond the 48 hours. The hands subsequent ones must be applied to happened drying from the previous ones.

The consumption final of the product with the aid Of armor, will increase Of approx. 600-700 gr/m<sup>2</sup>. At the end to check visually That The cloak is uniform And deprived Of micro holes.

#### • **Application to trowel**

Apply The product in at least 2 hands And in the consumption expected, exercising a light pression on the surface And waiting, Between a hand And the other, a time sufficient to allow- king the hardening of the product And Anyway Not beyond the 48 hours (if beyond, apply a hand of NAI 45 or NAI 45H).

#### • **Application to airless**

The device second there our experience, can have the following parameters:

Pressure approx. 1 bar

Pistol to flow free: diameter nozzle 6 mm

The application must be carried out by obtaining continuous layers of uniform thickness. Wait Always the hardening of the layer Before Of proceed to the application of the next. Cross Always The towards Of application from the hands.

#### **Cleaning tools**

Clean everyone The tools After the use with waterfall. The product hardened go removed mechanically. and appropriate know That, a waterproofing made with a system to base Of king- without, requires an appropriate one preparation of the supports considering That The thicknesses That Yesthey will realize, expressed in mm, "would highlight" perfectly the possible

A support prepared to rule of art provides, where necessary, there correction Of slopes, The filling from the decompressions, there replacement Of possible tiles self-propelled, details shavings of the supports cementitious visibly Not smooth.

## Finishes for GUAINA+

NAIRETAN 200 POLIURETANICO/G

TILE FLOORING

W REFLEX

For the finishes indicate in the description, And necessary wait there complete maturation That it happens After 6-7 gg. to temperature Of 25°C. Tiles ceramics And mosaics vitrified they can to be applied on GUAINA+ Fibre using NAI CM KOLFLEX or in alternative a suitable adhesive cementitious for external Of category C2TE S1

The escapes Between the tiles they will be able to be filled with suitable stucco cementitious.

## Data technicians

PARAMETER	VALUE
Type Of product	single component
Color from the resin	grey clear
Color After the addition Of cement	grey dark
I wait	creamy
Weight specific	1.25 ± 0.05 kg/lit
Weight specific comp. A+20% cement	1.39 ± 0.05 kg/lit
Consumption For hand (After the addition Of cement)	• Roller: 0.500 kg/m <sup>2</sup> • Spatula: 1 kg/m <sup>2</sup>
Consumption total surfaces flat (After the addition Of cement)	Without armor: 2 - 2.3 kg/m <sup>2</sup> With armor: 2.6 - 3 kg/m <sup>2</sup>
Temperature Of application	+5°C +35°C
Time Of maturation complete	7 gg to 25°C
Operating temperature	from – 20 °C to + 60 °C
Application	Roller, brush, trowel, airless
% cement from add	20% on the weight total GUAINA+ from 16kg with 4 kg Of cement.
Absorption waterfall thickness movie dry 3mm	20 hours 2.57% - 48 hours 3.18%
Pot life	12" +- 2 hours
Viscosity (without fibers)	3500 ± 500 mPas (rpm=20, R3, 25°C)
Residue dry	73%
Storage	1 year to temperature included Between +5 And +35 °C distant from humidity
VOC	DIRECTOR 2004/42/EC: Paintings single-component to highperformance (BA). Limit value for this product (Cat. A/i) 140 gr/L. GUAINA + contains 4 gr/L VOC.

MARKING THERE IS	
REGULATIONS EN 1504-2	
Permeability at the CO <sub>2</sub>	SD = 80,352 m
Force Of adhesion For traction live	1
Permeability to the steam watery	Class I permeable to the steam watery
Absorption capillary And permeability to the water	0.02 kg/m <sup>2</sup> . h <sup>0.5</sup> - w <sub>3</sub> (low)
Reaction to the fire	E
Release Of substances dangerous	in the limits Of law

MARKING THERE IS	
REGULATIONS EN 14891-2012	
Membership to traction initial	0.8 N/mm <sup>2</sup> (without armor)
Membership to traction After aging thermal	1.15 N/mm <sup>2</sup> (without armor)
Membership to traction After dive to waterfall	0.65 N/mm <sup>2</sup> (without armor)
Membership to traction After cycles freeze-thaw	0.5 N/mm <sup>2</sup> (without armor)
Membership to traction After contact with waterfall Of lime	0.6 N/mm <sup>2</sup> (without armor)
Waterproof to the water	waterproofness to the water (without armor)
Release substances dangerous	in the limits Of law
Capacity Of crack bridging	
In conditions standard (+23°C)	1.42 mm (without armor)

### Packages

Kg 4 - 16

### Warnings

Not apply: to temperatures inferior to 0 °C; on surfaces subject to continues ascent Of waterfall And humidity; on surfaces wet, frosts or in forecasts Of these in the next 12 hours; in case Of fog persistent; directly on backgrounds lighten up or on panels heat insulating (in such case contact our technical office); directly on surfaces with pH > 11. The screeds in cement and/or concrete must be perfectly cured (over 28 days). Avoid re- ponds Of waterfall on the surface of the coating Between The layers until to the complete hardening. In phase Of pose consider That a high badger Of humidity slow down the drying of the product And That rain, high badger Of dew or other precipitation they can to wash away The product if Not dry. Keep the packages whole In the They packaging original, in environment dry to temperature between +5 and +35 °C. For exposed surfaces, in order to maintain the characteristics of the product, And appropriate to execute there cleaning periodic, in way from eliminate accumulation of dirt, which could reduce its performance over time. In case of contact with eyes, rinse thoroughly with water and consult a doctor immediately. During use, wear gloves and protective glasses, use all necessary precautions. For further And complete information regard the use, in way Safe of the product Yes recommends Of consult the last one version from the form Of safety. For further information on the pose of GUAINA+ consult The ours Office Technician. Check Always the last one update from technique consulted.

### Specifications

Waterproofing Of any support walkable (balconies, terraces, roofs, paving stones solar, covers in type) from to be carried out with sheath liquid single component fiber-reinforced TROUBLE- NA+ - Naici with addition in worksite Of cement Portland 32.5 in reason of the 20% of the weight total, For a consumption Not inferior to 2 kg to the m<sup>2</sup> from leave to view or finish with details fi- finishes acrylic, polyurethane or floors glued together with glue from external of the type C2TES1.

### Service

**NAICI, in addition to its sales offices, offers its customers a TEAM OF SPECIALIZED PERSONNEL for technical assistance and any application of the product.**

This sheet is based on our best knowledge of the product. Since we cannot exercise any control over the application of the same and there are multiple variations of use, NAICI assumes no responsibility for the use of the product. Always do reference at the last one version updated from the form technique, available on the site [www.naici.it](http://www.naici.it)