

- EN LIQUID-APPLIED WATERPROOFING PRODUCTS
- IT IMPERMEABILIZZANTI LIQUIDI PER EDILIZIA CIVILE
- FR IMPERMÉABILISANTS LIQUIDES
- PL HYDROIZOLACJE TARASÓW I BUDYNKÓW



## EASY-LAST 90

### One component elastomeric waterproofing liquid membrane with high transpiration rate

#### Description

EASY-LAST 90 is a gray, thick liquid product made up of one-component polyurethane polymers that by reacting with moisture, forms (even at low temperature) a UV resistant and weatherproof elastomeric membrane.

This product polymerizes quickly even at low temperatures and with high relative humidity values.

**EASY LAST-90 is water vapour permeable and therefore moisture does not accumulate under the coating.**

Once fully polymerized, EASY LAST-90 gives rise to a highly water resistant waterproof coating (also in permanent contact) and to several chemicals agents, that perfectly adheres to many substrates. Because of its non-thermoplastic chemical nature, which prevents both dust adhesion and softening at high temperature, EASY LAST-90 remains clean and can be easily cleaned in case of need.

#### Where to Use

EASY-LAST 90 is specifically designed for the in-situ realization of waterproofing elastic membranes without internal reinforcement (armour). Nevertheless, the combination with a specific reinforcing mesh, NYCON NET, may be useful to apply the product to uneven surfaces or with noticeable presence of cracks. EASY-LAST 90 is used to waterproof:

- flat or pitched roofs;
- terraces and balconies;
- sun roofs intended for pedestrian traffic (no need to apply additional finishes);
- flashings and drainpipes/gutters.

EASY-LAST 90 can be applied to:

- bituminous membranes;
- concrete;
- screeds;
- ceramic and stone coatings;
- tiles.

#### Application

##### Substrate Preparation

EASY-LAST 90 can be applied on substrates with a moisture content up to 6% (in compliance with UNI 10329), because since it is permeable to water vapor, this moisture will not cause bubbles formation. On the contrary, on surfaces with a higher moisture content both the compactness of the crosslinked film and its adhesion to the substrate are affected by the formation of bubbles in the coating.

##### *Black Bitumen Membranes:*

- clean the surface employing the most appropriate method;
- directly proceed with the application of EASY LAST-90 without primer.

##### *Protected Bitumen Membranes:*

- check adhesion between protective film and bitumen membrane;
- if adhesion is poor, remove the protective film before applying EASY LAST-90.

##### *Slated Bitumen Membranes:*

- apply BLACK SOLID and then proceed with EASY LAST 90.

##### *Industrial Concrete:*

- clean the surface removing oil and grease;
- apply a first skimming coat of EASY LAST-90 with a flat steel trowel for a consumption of approx. 400 g/m<sup>2</sup>.

##### *Cast and Striken-off Concrete:*

- verify that on the surface there is no cement laitance resulting from excess water in the mixture; in case of need remove it with a scarifying machine and then wash with pressurized water;
- to correct slopes and fill hollows and holes, use GROVE MASSETTO mixed with GROVE GPRIMER;
- apply a first skimming coat of EASY LAST-90 with a flat steel trowel with a consumption of approx. 400-500 g/m<sup>2</sup>.



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#### *Sand and Cement Screeds:*

- check the condition of the surface and carry out the appropriate interventions in order to obtain a cohesive bearing surface free from holes and depressions, with the correct slope and not too porous;
- apply a first skimming coat of EASY-LAST 90 with a flat steel trowel for a consumption of approx. 400-600 g/m<sup>2</sup>.

#### *Ceramic and Stone Coatings:*

- if you want to eliminate the pattern with the joints, patch with ANCHOR VE 400 spreading it with a steel spatula;
- abrade the surface with a diamond wheel;
- apply a first skimming coat of EASY-LAST 90 with a flat steel trowel for a consumption of approx. 400-600 g/m<sup>2</sup>.

#### Product Preparation

- Before use homogenize the product in the container with a low rpm mechanical mixer, carefully avoiding trapping air in the resin;
- allow 5 minutes for the product to release air bubbles that are trapped during mixing.

When the packs are only partially used, proceed with cleaning the edge of the bucket before closing it, to avoid gluing the lid.

However, reclosing the bucket, does not guarantee neither air nor moisture tightness and will reduce shelf life for subsequent uses.

#### Product Application

##### *Roll (on bituminous membranes):*

- use a solvent resistant short haired roller (mod.M017);
- a correct laying of EASY-LAST 90 with a roller allows reaching an average consumption of 0.8 kg/m<sup>2</sup> per coat;
- to reach an average consumption of approx. 1.6 kg/m<sup>2</sup>, 2 coats should be laid within 24 hours of each other;
- in case of either vertical or sloping surfaces, product viscosity should be increased by adding 1 - 4% by weight of EASY-LAST 90 THICKENER. Then, once EASY LAST-90 has been modified as mentioned above, it should be used within 1 hour.



##### *Roll (on concrete, screeds and both ceramic and stone coatings):*

- apply a first skimming coat of EASY-LAST 90 with a flat steel trowel for a consumption of approx. 500÷600 g/m<sup>2</sup> and allow time for the surface to become treadable;
- for subsequent coats use a solvent resistant, short-haired roller. (mod.M017);

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- correct laying of EASY-LAST 90 with a roller allows reaching a maximum consumption of 0.7÷0.8 kg/m<sup>2</sup> per coat;
- to reach the consumption of approx. 2.2÷2.4 kg/m<sup>2</sup> , 2 coats should be laid within 24 hours of each other;
- in case of either vertical or sloping surfaces, the viscosity of the product should be increased adding 1-4% by weight of EASY-LAST 90 THICKENER. Then, once EASY-LAST 90 has been modified as mentioned above, it should be used within 1 hour.



#### *Spatula (self-leveling laying):*

- apply a first skimming coat of EASY-LAST 90 with a flat steel trowel for a consumption of approx. 500÷600 g/m<sup>2</sup> and wait until the surface is treadable;
- before laying the second coat, the product should be modified by adding the 6% of EASY LAST-90 FLUID;
- apply with a steel notched trowel (LAMA PROFILO 93) to reach a consumption of approx. 2.2÷2.4 kg/m<sup>2</sup>;
- when the product is still fresh, to release the trapped air from the film and facilitate the film stretching pass over with a plastic bubble breaker roller (mod. NR6300P - 25 cm).

Once modified as mentioned before, EASY-LAST 90 should be used within 1 hour.



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### Curing Time of the Applied Product

Curing time, before allowing foot traffic on the applied product, is a function of air humidity and substrate: it may vary from 12 to 18 hours approximately.

Once the product is treadable, rainfall does not affect the development of the final properties of the applied film. The only meaningful defect could be the appearance of whitening on the product surface.

### Cleaning of the tools:

- when the product is still fresh clean tools with Xylene or nitro diluent;
- after the product has dried, clean tools by mechanical means.

### Coverage

- with roller on a bitumen membrane: 1.6÷1.8 kg/m<sup>2</sup>;
- with roller on concrete, screed and ceramic coatings and stone: 2.2÷2.4 kg/m<sup>2</sup>;
- self-leveling application: 2.2÷2.4 kg/m<sup>2</sup>.

### Warnings and Special Instructions

- Once cross linked, this product can be removed from tools by mechanical means only. Removal will be easier if you leave the tools soaking for at least 1 hour in a solvent like SOLVENTE PER EASY-LAST or ACETONE.
- The product is harmful by inhalation and in contact with skin. Use work gloves class II in compliance with EN 374. During application ensure adequate workplace ventilation and wear a respirator or a mask with organic vapor cartridge type A2 or ABEK2 in compliance with EN 141.
- Read the Material Safety Data Sheets (MSDS) before use.

### Specifications

dry residue, ISO 1625		%	90.2 ± 0.5
dynamic viscosity Brookfield, method UNI EN ISO 2555		mPa·s	9000 ± 500
shore A hardness (curing 7 days at 23° C and 50% RH), DIN 53505		°	68 ± 2
colour		-	grey
maximum load at break, UNI EN ISO 527-1 (Speed 50 mm/min)	+23°C	MPa	2.0 ± 0.2
	0°C		5.0 ± 0.5
	-15°C		8.0 ± 0.5
elongation at break, UNI EN ISO 527-1 (speed 50 mm/min)	+23°C	%	430 ± 50
	0°C		
	-15°C		

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vapor permeability DIN 52615	μ	2600 ± 400
impermeability to water, EOTA TR-003	-	waterproof
substrate maximum humidity, UNI 10329	%	6
application temperature	°C	from +1 to +35
operating temperature	°C	from -20 to +90

Note: testing methods are in accordance with the standards referred to on the table.

### Packaging and storage

Packaging	7 kg metal pail with locking tie 23 kg metal pail with locking tie
Storage	6 months in original closed container in a dry place and at a temperature between +5°C and +30°C. The product is sensitive to frost.

### EASY LAST 90 THICKENER

Tixotropant gel additive for EASY-LAST 90 to be applied on vertical surfaces, easily incorporable by simple mixing at low rpm.

The dosage of EASY-LAST 90 THICKENER should be chosen depending on the desired result (at most 4% by weight on the product).

The additive also acts as a product crosslinking accelerator.

#### Direction for use:

- shake EASY-LAST 90 THICKENER before you use it;
- once the additive is added, mix the product with a low rpm mixer until complete homogenization;
- after the mix is complete and EASY-LAST 90 is modified as mentioned above, it should be used within 1 hour.

### Specifications

dosing by weight for EASY LAST-90	%	1 ÷ 4
appearance	-	gel
colour	-	brown
odor	-	organic solvent
density (at 23°C), ISO 2811-1	kg/l	1.03 ± 0.05
VOC Content, ISO 11890-2	%	74 ± 2

Note: testing methods are in accordance with the standards referred to on the table.

### Packaging and storage

Packaging	0.28 kg can 0.92 kg can
Storage	12 months in its closed original container, in a dry place at temperatures between +5°C and +30°C. The product is sensitive to frost.

### EASY LAST-90 FLUID

Fluidizing solvent additive for EASY-LAST 90, easily incorporable by simple mixing at low rpm.

This additive also acts as a product crosslinking accelerator.

#### Direction for use:

- shake EASY-LAST 90 FLUID before withdrawing;
- once the additive is added, mix the product with a mixer at low rpm until fully homogenized;



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- after mix is complete, EASY-LAST 90, modified as mentioned above, should be used within 1 hour.

### Specifications

dosing by weight for EASY-LAST 90	%	6 ÷ 7
appearance	-	liquid
colour	-	yellow
odor	-	organic solvent
density (at 23°C), ISO 2811-1	kg / l	0.96 ± 0.05
VOC Content, ISO 11890-2	%	10 ± 1

Note: testing methods are in accordance with the standards referred to on the table.

### Packaging and storage

Packaging	0.49 kg can 4.83 kg can
Storage	12 months in its closed original container, in a dry place at temperatures between +5°C and +30°C. The product is sensitive to frost.

### 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

18.04.2013

