

HYDROZOL® REINFORCE GEO-PP NON-WOVEN REINFORCEMENT TEXTILE

non-woven reinforcement polypropylene textile
for strengthening and reinforcement of liquid and plastered
waterproofing, mortar coatings, etc., indoor and outdoor

Product description

HYDROZOL® REINFORCE GEO-PP is hydrophilic, exceptionally flexible and easy-to-mould non-woven fabric (fleece) of polypropylene fibres for integration and reinforcement of liquid and plastered indoor and outdoor waterproofing.

It is fully integrated into the applied coating and becomes an integral part of it.

Together they form a layer that combines the benefits of liquid waterproofing with those of membranes — elasticity, strength, stability and ability of safe bridging of dynamic cracks.

The reinforcement textile redistributes the stresses in the applied waterproofing coating and prevents its cracking in case of significant base and/or structure expansion, contraction/shrinkage, movement or vibration. Successfully prevents the transfer of existing old cracks in the base to waterproofing or mortar coatings applied on it.

Also available in a handy 10 cm wide roll for reinforced waterproofing of internal and external corners, joints and other areas prone to cracking, as well as for connection of drainage and de watering components, wall/floor connections, edges, ends, cracks, gutters and other complex details.

The reinforcing fleece has the ability to absorb the liquid waterproofing, which facilitates its incorporation into the waterproofing layer. The technology for thermal extrusion of polypropylene filaments and their subsequent felting allows production of dense and homogeneous product with excellent mechanical properties of the fabric. It has no adverse effect on human health and the environment and can be used as a geotextile fabric. Resistant to piercing, tearing, UV rays and ageing.

These properties make it a particularly suitable product for strengthening and reinforcement of waterproofing coatings in cracked areas or prone to cracking roofs, terraces, balconies, damp areas, etc. Especially suitable for use in combination with hybrid roof waterproofing HYDROZOL® HYDRO ROOF as well as wet rooms waterproofing HYDROZOL® FLEX GUM 1K applied under ceramic coatings. It is also a component of the HYDRO and SPLIT PROTECTION² elastic waterproofing system.





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18.06.2019
03.09.2019

Properties and scope of use

Properties:

prevents the formation of cracks in waterproofing coatings
redistributes stresses in the waterproofing layer and improves its elasticity, strength and stability
hydrophilic, very flexible and easy to mould
resistant to piercing, tearing, UV rays and ageing

For application on:

liquid and plastered waterproofing
on bases with cracks and/or other active joints
areas prone to cracking (corners, joints, edges, etc.)
drainage and dewatering connection, wall/floor joints, etc.

For application when:

waterproofing of damp and wet rooms
waterproofing of terraces, balconies, flat roofs
waterproofing applied under screed and ceramic coatings
bridging of dynamic cracks and joints

Packaging and indicative consumption

Packaging:

	<i>capacity</i>	<i>pallet</i>
roll 10 cm	50 m	-
roll 100 cm	50 m/50 m ²	-

Indicative consumption:

for a stretch of 1 m length	1.0 m
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Composition

Thin structure of felted polypropylene fibers.



Expiration date and Storage

Transport and store in original packaging in a dry place indoor at temperatures from + 5°C to + 30°C.

Instructions for use

- width: 100 cm; 1000 cm
- length: 50 m
- color: white

Base preparation

HYDROZOL® REINFORCE GEO-PP is used on all strong, load carrying bases free of loose substances (as grease, dust, etc.). The surface must be clean, stable and free of cracks. All areas and layers with poor mechanical resistance must be removed from the base in advance. The sharp edges must be broken off and rounded. The outer corners and edges are machined with an approximately bevel of 2–3 cm, and for all inner corners it is recommended to make a rounding of minimum radius of 2–3 cm. The existing ceramic coatings should be checked to verify their stable bondage to the base.

Existing unevenness and recesses must be filled and smoothed with TERAFLX® MASTER FIX lime-cement undercoat plaster at least three days before the waterproofing is applied. In some cases, depending on the base material and its condition, it is necessary to perform preliminary priming.

Follow the instructions for base preparation for the applied waterproofing system!

Application

HIDROZOL® REINFORCE GEO-PP is applied directly to the freshly laid first waterproofing layer, lightly pressed with a wide brush, trowel or other suitable tool to remove blisters, creases or hollow spaces and to ensure complete contact with the applied solution. Each new strip of reinforcing textile shall be overlapped with minimum of 5 cm over the already laid stripes.

After expiration of the drying time, determined according to the used waterproofing system, the next waterproofing layer is applied perpendicular to the previous one. The total thickness of the dried waterproofing membrane applied must be not less than 1 mm.

The applied waterproofing layer must be protected from rain, excessive drying, direct sunlight and freezing for at least 48 hours after its application. Before commencing of any further construction work the surface must be completely dry. Even after complete curing, it must not be subjected to direct or intense mechanical stress.

Attention!

Waterproofing should be carried out in dry weather at temperatures of the base and the environment in the range of + 5°C to + 30°C and air humidity below 80%.

Do not apply on wet, frozen or icy surfaces!

Do not apply on wet and water-dampened base, as well as bases with moisture penetrating! The acceptable surface moisture must be less than 2%!



Do not apply under direct sunlight!

The applied coating must be protected against too fast drying and freezing for at least 3 days!

Exposure to intense water load is allowed after at least 3 days!

Ceramic coatings can be applied 3 days after waterproofing application, and plasters and other coatings — after 5 days!

Hazards description

Work hygiene requirements must be observed.

Work in well-ventilated areas or outdoors! Avoid contact with eyes and skin! Keep out of the reach of children!

For more information, see the Product Safety Data Sheet.

Classification

Meets the requirements of the European and Bulgarian legislation and it is in accordance with standard:

European Standard	Manufacturer's specification
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Technical data

Parameter	Measure	Testing method	Testing result
Specific gravity	g/m ²	BDS EN ISO 527-3:2003	50
Longitudinal tensile strength	N/50mm	BDS EN ISO 527-3:2003	120
Crosswise tensile strength	N/50mm	BDS EN ISO 527-3:2003	90
Longitudinal tensile modulus	%	BDS EN ISO 527-3:2003	127
Crosswise tensile modulus	%	BDS EN ISO 527-3:2003	104
Longitudinal shear force	N/25mm	BDS EN ISO 1928:2003	0,50
Crosswise shear force	N/25mm	BDS EN ISO 527-3:2003	0,85
Puncture resistance	J	BDS EN ISO 527-3:2003	1,22

The information contained in the current document is based on our knowledge and recent technical achievements and experience that we have at the time of the last version. The technical recommendations concerning application that we offer in order to facilitate buyers and those working with our products are non-binding and are neither grounds for legal contract relations, nor for additional obligations resulting from the purchase contract. They do not dispense buyers from the necessity to verify products' application according to the instructions for every specific use. We as manufacturers guarantee the quality of the product, but cannot influence the circumstances and methods of its use. Application of the product should be performed by qualified personnel.

