

HYDRONYLON®HP

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BASE COAT

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1. Product Description and Intended Use

HYDRONYLON®HP is a polymer base-coat waterproofing membrane forming part of the HYDRONYLON® liquid-applied roof waterproofing system.

HYDRONYLON®HP is used to create the filling base coats beneath the HYDRONYLON®HN top coat on bituminous felt substrates.

System build-up for bituminous felt: HYDRONYLON®HP + Technical Mesh SW-1 + HYDRONYLON®HN.

2. Application Instructions

2.1 Product Preparation

Mix the compound thoroughly before application. Do not dilute.

2.2 Substrate Preparation

Bituminous felt substrates

Remove all sections of felt with poor adhesion and all brittle or flaking areas, and make good any gaps with new felt. Remove blisters from the existing covering. Remove all accumulated dirt from the roof surface by thorough sweeping or vacuuming. If the roof must be pressure washed (heavily soiled substrates), allow it to dry completely after washing. Failure to observe these requirements may result in minor blisters which do not affect the watertightness or durability of the finished coating.

2.3 Applying the Coating

Apply the first coat of **HYDRONYLON®HP** to the prepared substrate using a brush or roller. Once the first coat has dried, apply the second coat of **HYDRONYLON®HP** through Technical Mesh SW-1 (it is also acceptable to apply the first coat of **HYDRONYLON®HP** directly through Technical Mesh SW-1 onto the prepared substrate). The base coat must be applied in a minimum of two coats.

Lay Technical Mesh SW-1 with a minimum 100 mm overlap. After application of the base coat, the roof surface should be uniform and the mesh fully embedded in the base coat.

Material consumption

HYDRONYLON®HP (first coat): approx. 0.8 kg/m² (for new bituminous felt with coarse granules, allow 1.0 kg/m²).

HYDRONYLON®HP (second coat): approx. 1.2 kg/m² plus Technical Mesh SW-1.

Total consumption of HYDRONYLON®HP: min. 2.0 kg/m² (for new bituminous felt with coarse granules, allow min. 2.2 kg/m²).

Note: before applying each subsequent coat, ensure that the previous coat is fully dry. The recommended curing interval between coats is a minimum of 24 hours.

Important: the **HYDRONYLON®HP** base coat must not be used as a standalone waterproofing coating. Once the base coat has been applied, the **HYDRONYLON®HN** top coat must be applied (refer to the **HYDRONYLON®HN** Technical Data Sheet).

3. Practices to Avoid

- carrying out work in changeable weather conditions;
- carrying out work during rainfall or other precipitation;
- coating iced or permanently damp surfaces, or surfaces with standing rainwater;
- carrying out work when the temperature does not exceed +10°C over the full 24-hour period, or when the ambient and substrate temperature exceeds +35°C;
- carrying out work when relative humidity exceeds 85%;
- decanting the compound into containers previously used for other substances;
- cleaning tools with solvents (clean all tools with warm water and detergent);
- leaving containers open after work is finished, or storing containers where they are exposed to overheating or freezing.

4. Storage and Transport

Store containers tightly closed at temperatures between +5°C and +30°C, in a manner that prevents damage or destruction. Use the product within 30 days of opening. Transport in accordance with applicable transport regulations so that containers are not damaged.

5. Packaging and Shelf Life

Packaging: 25 kg plastic pails.

Shelf life: 18 months in sealed, original packaging.

6. Declared Performance

European Technical Assessment **ETA-23/0735**, issued 30.04.2024 in accordance with European Assessment Document **EAD 030350-00-0402**. Notified Body No. 1454: Łukasiewicz Research Network, Warsaw Institute of Technology, ul. Duchnicka 3, 01-796 Warsaw. Product family: liquid applied waterproofing kits for roof coverings, external application. Declaration of Performance: **DoP No. 01/HYDRONYLON/2026/UK**. Performance values apply to the HYDRONYLON® kit as assessed, with HYDRONYLON®HP forming part of the system build-up.

Essential characteristic	Declared performance
Minimum thickness: mineral substrate	0.75 mm
Minimum thickness: bituminous felt substrate	1.8 mm
Minimum thickness: metal substrate	0.7 mm
Minimum thickness: PVC membrane substrate	1.2 mm
Content, emission and/or release of dangerous substances	NPD
Resistance to water vapour: HYDRONYLON®HP + Technical Mesh SW-1 + HYDRONYLON®HN	$\mu = \text{min. } 130$
Resistance to water vapour: HYDRONYLON®HMS(P) + HYDRONYLON®HN	$\mu = \text{min. } 70$
Watertightness	Watertight
Resistance to wind loads	Pass (> 50 kPa)
Resistance to mechanical damage (perforation)	P3
Resistance to fatigue movement	Pass
Resistance to low surface temperatures	I₃
Resistance to extremely low surface temperatures	NPD
Resistance to high surface temperatures	L₃
Resistance to plant roots	NPD
Effect of variations in kit components and site practices	NPD
Effect of day joints	NPD
Slipperiness	min. 0.90

Performance level according to intended use	Classification
External fire performance	B(roof) (t1)
Reaction to fire	E
Climatic zone of use	M (Moderate)
Expected working life	W2 (10 years)
User loads	P3 (Normal)
Roof slopes	S1 to S4
Minimum surface temperature	TL3 (-20°C)
Maximum surface temperature	TH3 (+80°C)

7. Health and Safety

EUH208: Contains 1,2-benzisothiazol-3(2H)-one; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

The product does not contain components included in the list established under Article 59(1) of the REACH Regulation as having endocrine-disrupting properties, nor components with endocrine-disrupting properties in accordance with the criteria set out in Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, at a concentration equal to or greater than 0.1%. The substances contained in the product do not meet the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

Refer to the product Safety Data Sheet (SDS) before use.

8. Important Notes

The manufacturer guarantees the quality of the product but has no influence over the manner of its use. For refurbishment work,

follow the recommendations given in this Technical Data Sheet. The information above cannot replace the professional competence of the contractor and does not exempt the contractor from compliance with good building practice and health and safety regulations.

If in doubt, contact HYDRONYLON LTD on 020 7947 3625 or at office@hydronylon.uk.

9. Manufacturer and UK Importer

Manufacturer

Proof-Tech Sp. z o.o.
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44-109 Gliwice, Poland

European Technical
Assessment ETA-23/0735
DoP No. 01/HYDRONYLON/
2026/UK

UK Importer & Distributor

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