HYDRONYLON®

HYDRONYLON® Liquid-Applied Roof Waterproofing System

HYDRONYLON®HN

TOP COAT

Technical Data Sheet

Document ref: TDS-HN-2026 v1.0
Issue 1/2026 · Issue date: June 2026
Supersedes: Issue 1/2021 (PL)

1. Product Description and Intended Use

HYDRONYLON®HN is a polymer top-coat waterproofing compound forming part of the HYDRONYLON® liquid-applied roof waterproofing system.

HYDRONYLON®HN is used to create the top layer on previously prepared bituminous felt, metal, mineral and PVC membrane substrates.

System build-ups:

- **Bituminous felt:** HYDRONYLON®HP + Technical Mesh SW-1 + HYDRONYLON®HN
- **Metal:** HYDRONYLON®HMS(P) + HYDRONYLON®HN
- **Mineral substrates:** PRIMER EMULSION EG + HYDRONYLON®HN
- **PVC membranes:** HYDRONYLON®HN with Technical Mesh SW-1 embedded (min. 2 coats)

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. Apply a filling base coat of HYDRONYLON®HP (refer to the HYDRONYLON®HP Technical Data Sheet).

Metal substrates

Clean corroded areas by thoroughly wire brushing the entire corroded surface to preparation grade St2. The substrate must be clean, dry and free from grease, dust, dirt and loosely adhering material. Old paint coatings must be well abraded before coating. Washing the entire roof surface with pressurised water (warm water is recommended) with the addition of a cleaning and degreasing agent is recommended. Apply an anti-corrosion primer coat of HYDRONYLON®HMS(P) (refer to the HYDRONYLON®HMS(P) Technical Data Sheet).

Mineral substrates

Remove damaged, loose and crumbling fragments and make good any gaps. Then prime with PRIMER EMULSION EG (refer to the PRIMER EMULSION EG Technical Data Sheet).

PVC membrane substrates

Wash the PVC membrane substrate thoroughly with pressurised water (warm water is recommended) with the addition of a cleaning and degreasing agent. The substrate must be dry, clean and free from grease, dust and dirt.

2.3 Applying the Coating

Apply the HYDRONYLON®HN top coat to the prepared substrate using a brush, roller or airless spray.

Material consumption

Bituminous felt and metal substrates: total consumption of HYDRONYLON®HN over the HYDRONYLON®HP or HYDRONYLON®HMS(P) primer coat is 0.8 to 1.0 kg/m² (number of coats: 1 to 2).

Mineral substrates: total consumption of HYDRONYLON®HN on a primed mineral substrate is min. 1.5 kg/m² (number of coats: min. 2).

PVC membrane substrates: apply the first coat of HYDRONYLON®HN by brush, working directly through Technical Mesh SW-1. Once the first coat has dried, apply the second coat of HYDRONYLON®HN by roller or airless spray. Total consumption of HYDRONYLON®HN is min. 2.2 kg/m² (number of coats: min. 2). Lay Technical Mesh SW-1 with a minimum 50 mm overlap.

> **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.

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.

HYDRONYLON LTD, 47 Northcote Road, Croydon CR0 2HY | Tel: 020 7947 3625 | office@hydronylon.uk | www.hydronylon.uk

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**.

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	**μ = min. 130**
Resistance to water vapour: HYDRONYLON®HMS(P) + HYDRONYLON®HN	**μ = 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	**I_3**
Resistance to extremely low surface temperatures	**NPD**
Resistance to high surface temperatures	**L_3**
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.
ul. Wyczółkowskiego 21
44-109 Gliwice, Poland

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

UK Importer & Distributor

HYDRONYLON LTD (Company No. 15582277)
47 Northcote Road
Croydon CR0 2HY
Tel: 020 7947 3625
office@hydronylon.uk
www.hydronylon.uk