HYDRONYLON®

HYDRONYLON® Liquid-Applied Roof Waterproofing System

TECHNICAL MESH SW-1

REINFORCEMENT MESH

Technical Data Sheet

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1. Product Description and Intended Use

TECHNICAL MESH SW-1 is a high-quality polyester reinforcing mesh designed as an integral component of the HYDRONYLON® liquid-applied roof waterproofing system. The mesh is engineered to reinforce both the HYDRONYLON®HP base coat and the HYDRONYLON®HN top coat, enhancing the durability and performance of the roof covering.

System build-ups incorporating Technical Mesh SW-1:

- **Bituminous felt:** HYDRONYLON®HP + Technical Mesh SW-1 + HYDRONYLON®HN
- **PVC membranes:** HYDRONYLON®HN with Technical Mesh SW-1 embedded (min. 2 coats)

2. Application Instructions

2.1 Product Preparation

TECHNICAL MESH SW-1 is supplied ready to use and requires no additional preparation before application.

2.2 Substrate Preparation

Prepare the substrate in accordance with the instructions given in the HYDRONYLON®HP and HYDRONYLON®HN Technical Data Sheets. Correct substrate preparation is essential to the effectiveness and longevity of the waterproofing system.

2.3 Application

Apply TECHNICAL MESH **SW-1** following the guidelines set out in the HYDRONYLON®HP and HYDRONYLON®HN Technical Data Sheets. The mesh is embedded in the wet coat and must be fully covered by the subsequent coat.

Overlaps: lay the mesh with a minimum 100 mm overlap when embedded in the HYDRONYLON®HP base coat (bituminous felt build-up) and a minimum 50 mm overlap when embedded in the HYDRONYLON®HN coat (PVC membrane build-up).

3. Technical Specifications

Property	Value
Material type	**Polyester mesh**
Surface mass	**≥ 90 g/m²**
Average maximum tensile strength	**≥ 340 N**
Elongation at break	**≥ 80%**

4. Dimensions and Packaging

Roll widths: 2 m, 1 m, 0.5 m, 0.25 m and 0.1 m.

Standard roll length: 100 m.

5. Storage and Transport

Store TECHNICAL MESH SW-1 in dry rooms to maintain its integrity and performance. Protect the mesh from prolonged exposure to UV radiation, which can degrade the material over time. The product is not classified as hazardous, so no special storage or transport measures are required.

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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 Technical Mesh SW-1 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	**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

TECHNICAL MESH SW-1 is not classified as a hazardous product.

8. Important Notes

The manufacturer guarantees the quality of the product but has no influence over the conditions under which it is applied. Follow the recommendations given in this Technical Data Sheet during application. 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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