



# WATERTIGHT ROOFS

Seamless roofing  
membranes

Applied without  
removal of existing  
surface

HYDRONYLON

# HYDRONYLON

## LIQUID-APPLIED WATERPROOFING MEMBRANE **HYDRONYLON®** is



Waterproofing system



Maintenance free



Reduction in energy consumption



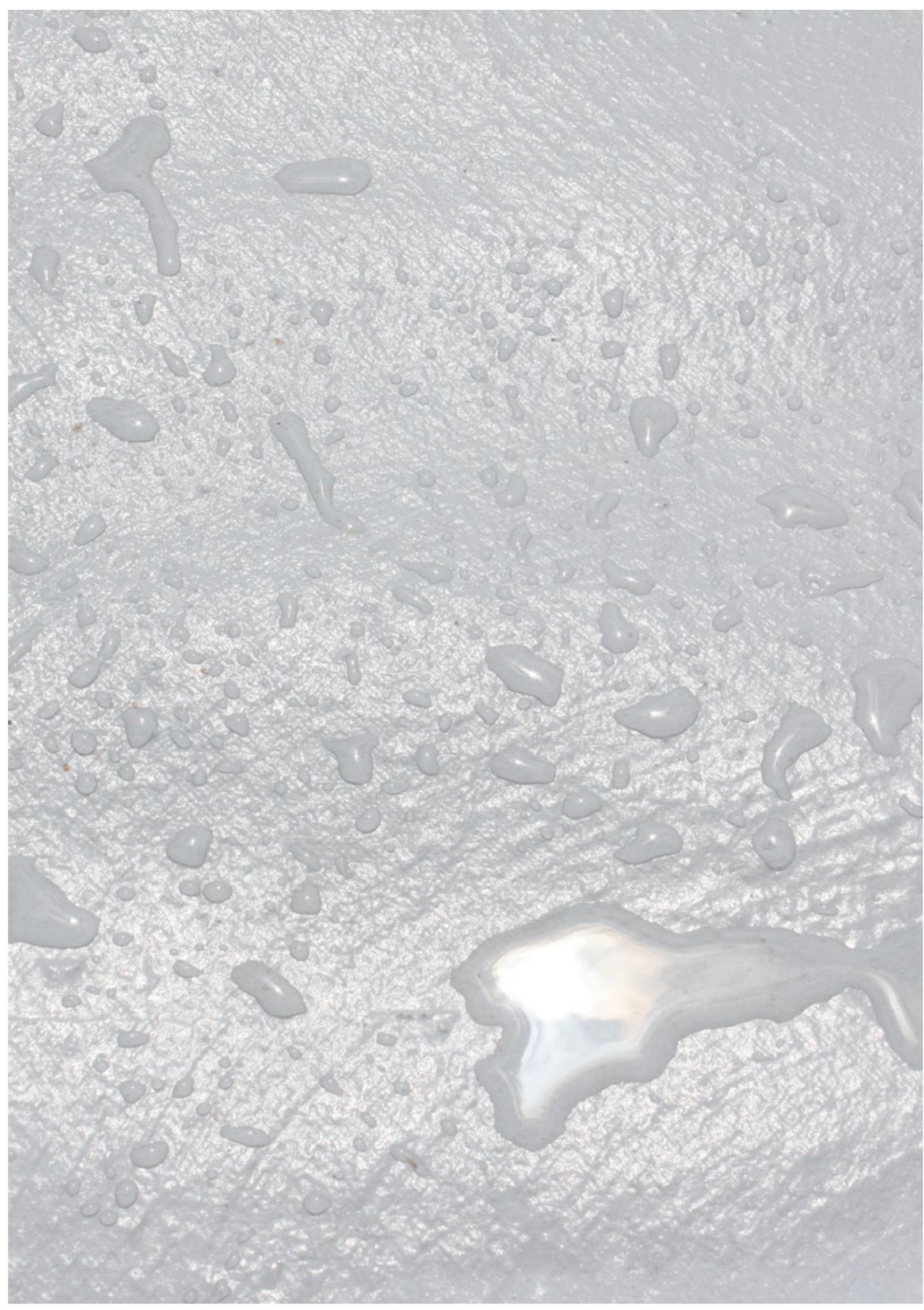
10-year warranty



An eco-friendly product under EU standards



Water-based environment-friendly



# Structure and Function of HYDRONYLON Layers

HYDRONYLON QLR ONE is a multilayer liquid-applied membrane system designed to provide long-term waterproofing, UV resistance, and improved building energy efficiency.

Each layer performs a specific role, ensuring not only full protection against water ingress and solar radiation, but also contributing to the overall thermal performance of the building envelope.

## Layer 1 – Adhesion Primer

This primer ensures full adhesion between the existing roof substrate and the HYDRONYLON system.

It penetrates surface micro-cracks and pores, providing uniform anchorage and improving overall coating durability.

The primer prevents adhesive failure and delamination under thermal and mechanical stress.

### Key features:

- > **Excellent adhesion to bituminous membranes, asphalt felt, concrete, and metal surfaces**
- > **Fills and seals microstructural irregularities and surface pores**
- > **Moisture-resistant formulation that prevents water migration from the substrate**



## Layer 2 – Reinforced HYDRONYLON Waterproofing Membrane



The core waterproofing layer is reinforced with a high-tensile mesh, delivering exceptional mechanical strength and long-term durability. The reinforcement accommodates substrate movement, significantly reducing the risk of membrane rupture or leakage caused by mechanical stress or structural shifts.

System performance has been independently validated through European Technical Assessment (EOTA) testing.

### Key features:

- > Fully waterproof—resistant to standing water and long-term exposure to precipitation
- > Seamless monolithic structure—eliminates joints and potential failure points
- > Resistant to acid rain, chemical pollutants, and substrate vibrations

## Layer 3 – Thermoreflective Protective Coating



The outermost layer reduces surface temperature and thermal load on the building envelope.

HYDRONYLON's thermoreflective properties keep the surface temperature close to ambient levels, even under intense solar radiation. Where conventional bitumen roofs may reach temperatures of up to 80°C, HYDRONYLON surfaces typically remain within 2°C of ambient temperature.

### Key features:

- > Solar Reflectance Index (SRI) of 108 – high reflectivity and UV resistance
- > Mitigates urban heat island effect, improving environmental comfort
- > Enhances photovoltaic panel efficiency by maintaining lower cell operating temperatures

# Hydronylon is a breakthrough in “cool roof” technology

This is a unique formula that can be applied to roofs of any shape or pitch. The technology is resistant to temperature fluctuations, which significantly extends the lifespan of roofs.



BEFORE



AFTER

BEFORE



AFTER



BEFORE



AFTER

# DRONYLON

## Scope of Work

1. Chimney refurbishment
2. Waterproofing of roof-to-wall junctions
3. Full-surface installation of embedded reinforcement mesh
4. Replacement and sealing of roof access hatches
5. Detailing and sealing of critical roof penetrations and terminations
6. Additional works





## Contact

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