Hypertectum Aqua

Very fast-drying, water-based, one-component, fully aliphatic polyurethane coating for waterproofing and protection

MINIMUM TOTAL CONSUMPTION	SERVICE TEMPERATURE	ELONGATION AT BREAK	COLOUR
> 1.5 kg/m²	−20 to +90 °C	> 300 %	White

01 DESCRIPTION

Hypertectum Aqua is based on water-based polyurethane dispersion technology and protects structures in an environmentally friendly way, providing waterproofing in the most difficult conditions. It offers excellent resistance to ponding water and to harsh weather. Because it is aliphatic, it has excellent UV resistance and improves the energy performance of a building by lowering surface temperatures. It is thixotropic, with excellent workability and quick drying, which makes it easy to apply to a variety of substrates such as concrete, metal roofing and polyurethane foam. Apply with brush, roller or spray in two or more coats on vertical and horizontal surfaces, forming an elastic and hydrophobic film.

02 COLOUR

White

03 LIMITATIONS

Not recommended for:

- Unsound substrates. In some cases, application is possible with geotextile reinforcement; contact ETS Europe for advice.

04 MAIN FEATURES

- Water-based
- Very fast drying
- Easy to apply and repair
- Thixotropic
- Seamless
- Elastic
- Highly resistant to standing water (ensure proper adhesion with a suitable primer)
- Water-vapour permeable: the film breathes, so no humidity builds up underneath
- Excellent weather and UV resistance. The white colour reflects much of the solar energy and considerably reduces the internal temperature of structures. Solar Reflectance Index (SRI) of the white colour: 106 (ASTM E1980)
- Can easily be tinted with most water-based pigment pastes, subject to adequate testing
- Compatible with the Hypertectum primer range

05 RECOMMENDED FOR

Waterproofing, painting and protection of:

- Polyurethane foam
- Roofs
- Light roofing made of metal or fibre-cement
- Under-tile applications, such as wet rooms
- Protection of concrete and reinforced concrete against carbonation

06 SUITABLE SUBSTRATES

Concrete, fibre-cement, cement roof tiles, wood, galvanised steel, polyurethane foam. For other substrates, contact ETS Europe.

Standard conditions for a concrete substrate:

Concrete strength	Moisture	Temperature	Relative humidity
C20/25	≤ 5 %	5–35 °C	< 85 %

Suitable primers: Hypertectum Aqua Primer or Hypertectum Universal Primer 1K, depending on the substrate. Contact ETS Europe for primer selection advice.

07 SYSTEM BUILD-UP

01	→ 02	→ 03
Substrate	Hypertectum Aqua Primer or Hypertectum Universal Primer 1K	Hypertectum Aqua, two or more coats

08 APPLICATION PROCEDURE

Surface preparation	Clean the surface with a high-pressure washer where possible. Remove oil, grease and wax. Remove cement laitance, loose particles, mould-release agents and old cured membranes. Fill surface irregularities.
Priming	Apply the recommended primer according to its data sheet. For non-demanding applications (where standing water or negative water pressure is not an issue), the product itself can be used as a primer, diluted with 15 % water. For more demanding applications, use a primer from the list above or contact ETS Europe.
Mixing	Use a low-speed mixer (300 rpm).
Application	Roller, brush or airless spray, in two or more coats. Do not apply in extremely wet weather, when rain is imminent or at near-freezing temperatures.

09 CONSUMPTION

Applied with roller or brush	
First coat	0.6–0.8 kg/m²
Second coat	0.6–0.9 kg/m²
Applied by airless spray	
Per coat	0.5 kg/m²
Minimum total consumption for waterproofing	**> 1.5 kg/m²**
depending on project requirements	
As a protective paint	0.5 kg/m²

10 CLEANING

Clean tools and equipment immediately with water.

11 PACKAGING

Plastic pails of 5 kg and 12 kg

12 STORAGE

At least 12 months in the original unopened pails, in a dry place at 5–25 °C. Once opened, use as soon as possible. Protect from frost.

13 SAFETY

See the Safety Data Sheet.

14 TECHNICAL DATA — LIQUID (BEFORE APPLICATION)

PROPERTY	UNIT	METHOD	VALUE
Viscosity (Brookfield)	cP	ASTM D2196, 25 °C	20,000–40,000
Density	g/cm³	ASTM D1475 / ISO 2811, 20 °C	1.45–1.55
Application temperature	°C	–	> 5

15 TECHNICAL DATA — CURED MEMBRANE

PROPERTY	UNIT	METHOD	VALUE
Service temperature	°C	–	−20 to +90
Hardness	Shore A	ASTM D2240 / ISO 868	70
Tensile strength at 23 °C	kg/cm² (N/mm²)	ASTM D412 / EN ISO 527-3	50 (5.0)
Elongation at break at 23 °C	%	ASTM D412 / EN ISO 527-3	> 300
Water absorption	%	–	< 5
Solar Reflectance Index (white)	–	ASTM E1980	106
QUV accelerated weathering (4 h UV at 60 °C, UVB lamps + 4 h condensation at 50 °C)	–	ASTM G53	Passed (2,000 h)

The information in this data sheet reflects current techniques and our best knowledge. Because the use of the product is beyond our control, neither the manufacturer nor the distributor can be held responsible for results. Instructions not covered by this data sheet require written confirmation from head office. Our general terms and conditions apply. This data sheet cancels and replaces all previous versions.