ABOUT HYDAWET WP11

HYDAWET WP 11 is a high-performance, single-component, liquid-applied waterproofing and anti-fracture membrane designed for use under thin-set tile, stone, and brick installations. It is self-curing, seamless, and forms a load-bearing membrane that provides protection against moisture and minor structural movement. This rapid-drying liquid rubber polymer changes color upon curing and allows direct installation of surface finishes without fabric reinforcement in most areas.

HYDAWET WP 11 complies with and exceeds the following standards:

ANSI A118.10

ANSI A118.12

EN 14891

RECOMMENDED SURFACES / SUBSTRATES

- Concrete and masonry surfaces
- Cement plastered surfaces
- Exterior-grade plywood (interior only)
- Cement mortar beds
- Cement backer boards

APPLICATION AREAS

- Interior and exterior wet areas
- Bathrooms and laundries (commercial & residential)
- Spas, steam rooms (with vapor barrier)
- Kitchens and food processing zones
- Shower pans, stalls, and tubs
- Balconies and terraces over unoccupied spaces
- Industrial and institutional wet zones

PRODUCT HIGHLIGHTS

❖ **RAPID CURING** – Flood test ready in as little as 2–24 hours depending on conditions

❖ **FABRIC-FREE** – No reinforcement fabric needed for most applications

❖ **THIN PROFILE** – 0.5–0.8 mm cured film thickness

❖ **HIGH ELONGATION** – >400% elongation for crack-bridging performance

- ❖ **DIRECT APPLICATION** – Bonds to metal and PVC fixtures
- ❖ **ANTI-FRACTURE** – Protects up to 3 mm of shrinkage or non-structural cracks
- ❖ **LOW VOC** – Solvent-free, non-flammable, safe for indoor use
- ❖ **MICROBAN® PROTECTION** – Built-in antimicrobial defence APPLICATION INSTRUCTIONS
- ❖ **TILE DIRECTLY** – Supports tile, stone, and brick directly after curing

TECHNICAL DATA

ANSI DATA

TEST DESCRIPTION	STANDARD / CLAUSE	REQUIREMENT	HYDAWET WP 11 VALUES
7 Day Hydrostatic Test	ANSI A118.10 Clause 4.5	No moisture penetration	Pass
7 Day Breaking Strength	ANSI A118.10 Clause 4.3	≥ 170 psi	252–302psi
7 Day Shear Bond Strength	ANSI A118.10 Clause 5.3	≥ 50 psi	177–227psi
7 Day Water Immersion Bond Strength	ANSI A118.10 Clause 5.4	≥ 50 psi	97–122psi
28 Day Shear Bond Strength	ANSI A118.10 Clause 5.5	≥ 50 psi	252–302 psi
System Crack Resistance	ANSI A118.12 Clause 5.4	3.2 mm	Pass (High performance)
Water Vapor Transmission	ASTM E96–00E1 Procedure B	NA	0.520 grains/h·ft² (0.3602 g/h·m²)
Water Vapor Permeance	ASTM E96–00E1 Procedure B	NA	1.242 perms (71.21 ng/Pa·s·m²)
System Performance	ANSI A118.10; ASTM C627; TCA Rating	Heavy (1–12 cycles) / Extra Heavy (1–14 cycles)	1–14 cycles – "Extra Heavy"
Elongation	ASTM D751	NA	> 400%

EN DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAWET WP 11 VALUE
Water Impermeability (1.5 bar for 7 days)	EN 14891 A.7	No Penetration	Pass
Crack Bridging (Standard conditions, 23°C)	EN 14891 A.8.2	≥ 0.75 mm	> 3.4 mm
Crack Bridging (Low temperature, –18°C)	EN 14891 A.8.3	≥ 0.75 mm	2.3–2.7 mm
Initial Adhesion Strength	EN 14891 A.6.2	≥ 0.5 N/mm²	1.3 N/mm²
Adhesion Strength after Water Immersion	EN 14891 A.6.3	≥ 0.5 N/mm²	1.0 N/mm²
Adhesion Strength after Heat Ageing	EN 14891 A.6.5	≥ 0.5 N/mm²	1.8 N/mm²
Adhesion Strength after Freeze-Thaw Cycles	EN 14891 A.6.6	≥ 0.5 N/mm²	1.1 N/mm²
Adhesion after contact with Chlorinated Water	EN 14891 A.6.8	≥ 0.5 N/mm²	0.7 N/mm²
Adhesion after contact with Alkaline (Lime) Water	EN 14891 A.6.9	≥ 0.5 N/mm²	1.0 N/mm²

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1**. CLEAN & PREPARE JOINTS**

Ensure all surfaces are clean, structurally sound, and free of contaminants such as oil, grease, laitance, curing compounds, or sealers. Smoothen rough surfaces using a suitable underlayment if required. Substrate deviation must not exceed 6 mm over 3 meters. Damp concrete is acceptable, but standing water must be removed. New concrete should be cured for a minimum of 14 days.

2. INSPECT TILE/STONE SURFACE

Check for structural stability, cracks, and completeness of curing. For concrete substrates, a minimum curing period of 14 days is necessary. If using porous or sensitive tile/stone, conduct a test patch using HYDAWET WP11 to ensure no staining or adverse reactions.

3. MOVEMENT JOINT PROVISION

Honor all movement and control joints in the substrate. Do not cover expansion joints with membrane or mortar. Fill these joints with a suitable flexible filler such as silicone sealant and backer rod. Provide expansion joints in accordance with TCNA EJ171 or ANSI A108 AN-3.8 guidelines.

4. PROTECT THE WORK AREA

After membrane application, protect the area from rain, water exposure, or heavy traffic during the early curing period. Under typical conditions (21°C), allow at least 2 hours before exposing to water or performing a flood test. In cooler climates (10–21°C), a 24-hour curing time is recommended.

HOW TO APPLY THE MEMBRANE

1. SURFACE TREATMENT BEFORE APPLICATION

- **CRACKS & JOINTS**: Pre-fill with HYDAWET WP11 Latex Thin-Set or coat with membrane.
- **COVES & CORNERS**: Apply membrane, optionally using fabric reinforcement.
- **DRAINS & PIPES**: Use clamping ring-type drains. Seal junctions with membrane and silicone sealant.
- **PENETRATIONS:** Fill gaps with mortar, apply membrane, and seal edges with silicone.

2. MEMBRANE APPLICATION STEPS

- Apply the first coat of HYDAWET WP11 membrane using a brush or roller.
- Allow to dry to the touch (approx. 1–2 hours depending on ambient conditions).
- Apply the second coat perpendicular to the first to ensure uniform coverage.
- Inspect for thin or missed areas and touch up as required.

3. INSTALLING TILE OR STONE FINISHES

- Once the membrane is touch-dry, tiles can be installed using HYDAWET WP11 Latex Thin-Set Mortar.
- Do not use solvent-based adhesives.
- Wait a minimum of 2 hours before overlaying with screeds or other toppings

4. FLOOD TESTING & FINAL PROTECTION

- Allow a minimum of 2 hours at 21°C before flood testing.
- In cooler temperatures (10–21°C), extend this period to 24 hours.
- Ensure protection from rain and heavy foot traffic during the initial curing phase.

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING: 20 Litre pails

- **SHELF LIFE:** 2 years when stored sealed
- **STORAGE**: Store at 10–30°C in a dry area away from sunlight, frost, and contamination

COVERAGE DETAILS

- Approx. 250 ft² per 20 Litre pail (2 coats)
- Actual coverage varies based on surface condition, porosity, and application method

SAFETY & APPLICATION GUIDELINES FOR HYDAWET WP 11

1. PERSONAL PROTECTION

- Wear gloves and safety goggles during use
- Avoid skin and eye contact
- Not for consumer DIY; professional use only

2. EMERGENCY PROCEDURES

- **SKIN CONTACT**: Wash with water immediately
- **EYE CONTACT**: Flush with water and seek medical advice if irritation continues

3. APPLICATION GUIDANCE

- Apply two coats of HYDAWET WP 11 at right angles to each other
- Allow drying time between coats (1–2 hours)
- Inspect surface for voids or pinholes before tiling
- Do not dilute or mix HYDAWET WP 11 with other products

End of TDS