



HYDAGUARD WP 12

ABOUT HYDAGUARD WP 12

HYDAGUARD WP 12 is a high-performance, roller-applied liquid rubber waterproofing membrane designed for use under both thin and thick bed installations of ceramic tiles, stone, and other surface finishes. It offers excellent waterproofing and anti-fracture protection for residential and commercial wet areas, interiors and exteriors alike. Tiles, brick, and stone can be installed directly over the membrane, making it a highly efficient and time-saving solution for modern tile installations.

HYDAGUARD WP 12 meets and exceeds the performance standards –

ANSI A118.4

EN 14891

SURFACE APPLICATION MATERIALS

- Ceramic tiles
- Natural stones
- Glass mosaics
- Vitrified and semi-vitreous tiles
- Brick and pavers
- Large-format tiles

RECOMMENDED SURFACES / SUBSTRATES

- Concrete surfaces
- Cement plastered and rendered surfaces
- Gypsum wallboard
- Exterior-grade plywood
- Cement mortar beds
- Cement backer board
- Cement terrazzo
- Concrete and Brick masonry

APPLICATION AREAS

- Balconies & terraces
- Wet areas (showers, spas, saunas, fountains)
- Podium decks
- Swimming pools (under tile installations)

- External walls & facades
- Window and door perimeters
- Renovation and new construction projects
- Bathrooms & kitchens

PRODUCT HIGHLIGHTS

- ❖ **FAST & EASY TO APPLY** – Roller, brush, or spray application; dries quickly
- ❖ **WATER CLEANABLE (WHEN FRESH)** – Easy cleanup during application
- ❖ **NON-FLAMMABLE & SAFE TO USE** – Safe for use in enclosed or heat-sensitive environments
- ❖ **CRACK BRIDGING** – Up to 1/8" (3 mm) over shrinkage and non-structural cracks
- ❖ **DIRECT TILE INSTALLATION** – Direct installation of tile, stone, or brick over membrane
- ❖ **PROVEN HISTORY** – Backed by trusted field performance
- ❖ **FLEXIBLE & DURABLE** – Long-lasting protection against moisture ingress
- ❖ **ECO-FRIENDLY** – Low VOC formulation for healthier indoor environments
- ❖ **INTERIOR & EXTERIOR USE** – Effective in both indoor and outdoor environments

TECHNICAL DETAILS

ANSI DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAGUARD WP 12 VALUES
7 Day Hydrostatic Pressure	ASTM D 4068-01	No moisture penetration	41 hrs
7 Day Tensile Strength	ASTM D 751	NA	305–355 psi
28 Day Shear Bond Strength (Quarry tile to membrane)	ANSI A118.4 Clause 7.3	≥ 150 psi (1.03 MPa)	280–355 psi
Shear Bond Strength (Quarry tile to membrane)	ANSI A118.4 Clause 7.1	≥ 200 psi (1.38 MPa)	305–355 psi
Dry Time @ 70°F (21°C) – 1st Coat	Visual Observation	–	Approx. 3–4 hrs
Dry Time @ 70°F (21°C) – 2nd Coat	Visual Observation	–	Approx. 5–6 hrs
Full Cure @ 70°F (21°C) – Tack Free	Visual Observation	–	Approx. 6–8 days
7 Day Elongation	ASTM D 751	NA	>305%

EN / ISO DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAGUARD WP 12 VALUES
Water Impermeability (1.5 bar for 7 days of Positive pressure)	EN 14891 A.7	No Penetration	Pass
Crack Bridging Ability in Standard Conditions (23°C)	EN 14891 A 8.2	≥ 0.75 mm	> 1.6 mm
Initial Adhesion Strength	EN 14891 A 6.2	≥ 0.5 N/mm ²	1.3 N/mm ²
Adhesion Strength after Water Immersion	EN 14891 A 6.3	≥ 0.5 N/mm ²	0.8 N/mm ²
Adhesion Strength after Heat Ageing	EN 14891 A 6.5	≥ 0.5 N/mm ²	1.6 N/mm ²
Adhesion Strength after Freeze-Thaw Cycles	EN 14891 A 6.6	≥ 0.5 N/mm ²	1.1 N/mm ²
Adhesion Strength after Contact with Chlorinated Water	EN 14891 A 6.8	≥ 0.5 N/mm ²	1.0 N/mm ²
Adhesion Strength after Contact with Alkaline (Lime) Water	EN 14891 A 6.9	≥ 0.5 N/mm ²	0.9 N/mm ²

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. **CLEAN & STABLE SURFACE**

Ensure the substrate is structurally sound, clean, and free from dirt, oil, grease, loose peeling paint, concrete sealers, or curing compounds.

2. **EVEN & LEVEL BASE**

The substrate must be plumb and true within 6 mm over a 3-meter (10 ft) span to ensure even tile installation and avoid misalignment.

3. **DRY & MOISTURE-CONTROLLED**

The surface should be free from excessive moisture or rising dampness. Installation may be done on a damp surface, but not on overly wet substrates.

4. **CURE NEW CONCRETE**

Newly placed concrete slabs must be damp cured for at least 14 days before the application of HYDAGUARD WP 12 to allow proper setting and bonding.

5. **PRESERVE EXPANSION JOINTS**

Pack pipe penetrations and similar gaps with compressible backer rod and seal with a suitable flexible sealant. Use HYDAGUARD WP 12 with reinforcing fabric around drains and pipes, and finish with a urethane or silicone sealant

HOW TO MIX

MIXING RATIO – HYDAGUARD WP 12 is a ready-to-use product and does **not** require dilution or addition of any aggregates or binders. Simply stir the contents thoroughly before use to ensure uniform consistency.

1. **BLENDING PROCESS** – Open the pack and stir the liquid membrane using a clean mixing vessel and a mechanical stirrer or a heavy-duty paint stick until a consistent texture is achieved. Do not use high-speed mixing that can introduce air.
2. **RESTING PERIOD** – No resting time is required after stirring, and the product can be applied immediately. However, ensure surface preparation is complete and proper environmental conditions are met.
3. **APPLICATION CAUTION** – Do not add water, other liquids, or aggregates to HYDAGUARD WP 12. If the material starts to harden, **do not** attempt to restore workability by adding any substances. Apply the product only when ambient temperatures are above 40°F (5°C) and avoid use under direct sunlight before mixing.

STEP-BY-STEP APPLICATION GUIDE

1. SURFACE PREPARATION

- Ensure surface is structurally sound, clean, and level.
- Remove dust, oil, sealers, curing compounds, and contaminants.
- Use cement backer boards or approved membranes on uneven or porous surfaces.

2. PLYWOOD FLOOR CONSIDERATIONS

- Use exterior-grade plywood only.
- Ensure proper gapping and fastening.
- Subfloor must meet deflection standards to avoid cracking.

3. UNSUITABLE SUBSTRATES

Avoid these surfaces:

- Luan, particleboard, OSB, Masonite, hardwood
- Painted surfaces or those with wax, oil, or grease
- Chemically sensitive surfaces or standing water zones

4. WATERPROOFING MEMBRANE

- Corners, coves, joints: Apply liquid 4" (10 cm) on each side. Embed 6" (15 cm) wide fabric folded in half. Ensure full "bleed-through" with brush or roller. Top coat over fabric.
- First Coat: Apply 20–30 mils (0.5–0.75 mm) wet membrane.
- Allow to dry 2–3 hours (touch-dry).
- Second Coat: Apply perpendicularly to the first coat after it's dry to the touch.
- Final dry time: 3–4 hours, longer in humid/cold conditions.

5. CRACK SUPPRESSION

- For non-structural cracks $\leq 1/8"$ (3 mm), apply waterproofing membrane over the area.
- Embed reinforcing fabric and apply two coats.
- Allow full curing before proceeding.

6. TILE PLACEMENT

- Pre-fill gaps and changes in plane with flexible material and mesh.
- Apply two coats of waterproofing membrane evenly with roller or brush.
- Ensure full drying of the first coat before applying the second.

7. ACHIEVING FULL ADHESION

- Use latex-modified thin-set mortar only.
- Set tiles while mortar is fresh, ensuring full coverage (no voids under tile).
- Do not install over partially cured or damp membranes.

8. SPACING & CLEANING

● SPACING

- Maintain consistent grout joints.
- Use tile spacers to ensure accurate alignment.

● MOVEMENT JOINTS

- Provide movement joints per TCNA EJ171.
- Required at changes in plane, perimeters, and over construction joints.

● CONTROL JOINTS

- Do not bridge structural/control joints with tile unless using an approved system.
- Honor all substrate joints in tile layout.

- **CLEANING**

- Clean tools immediately after use.
- Prevent dried mortar or membrane buildup on tile faces or joints.

9. DRAINS & PENETRATIONS

- Seal around drains and pipe penetrations using backer rod and flexible sealant.
- Flash all changes in plane with fabric reinforcement.
- Apply at least 2" (50 mm) overlap at seams.

10. PROTECTION

- Allow 24 hours minimum for membrane to cure before exposing to water or traffic.
- Avoid heavy traffic or work over waterproofed areas before full cure.
- Prevent UV exposure longer than manufacturer's recommendation.

11. FLOOD TESTING

- Only perform flood test after 7 full days of curing.
- Plug drains and ensure water level is maintained for full 24-hour test.
- Do not flood test at low temperatures or high humidity without extending cure time.

12. INSTALLING FINISHES

- Use latex-modified thin-set mortar for tile installation.
- Do not use solvent-based adhesives over waterproofing membranes.
- Grout only after adhesive has fully set.

13. SPECIAL CONSIDERATIONS

- Not suitable as a roofing membrane.
- Not for areas with long-term ponding or exposure to solvents.
- Consult technical support for special conditions (e.g., pools, industrial areas).

PRO TIPS & PRECAUTIONS

- ✓ Protect freshly installed tiles from rain and foot traffic for at least 24 hours.
- ✓ Maintain the correct mix—do not add sand or cement on-site.
- ✓ Use the recommended water ratio—excess water can weaken the adhesive.
- ✓ For installations above 3 meters, consider additional mechanical support (e.g., steel hooks) for enhanced stability.
- ✓ Always add powder to water, not the other way around, to ensure a smooth and consistent mix.
- ✓ Avoid excessive surface corrections—do not use adhesive to fix irregularities deeper than 15 mm.
- ✓ Ensure the substrate is fully cured before application—never apply adhesive on wet screed.

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING

5 Litre and 20 Litre pails

SHELF LIFE : Minimum 2 years in unopened container

STORAGE LIFE:

- Keep in original sealed packaging
- Store in a cool, dry place (10–30°C)
- Protect from:
 - Direct sunlight
 - Moisture/humidity
 - Extreme temperatures (<5°C or >35°C)

COVERAGE DETAILS

- Approx. **225–250 ft²** per 20 Litre pail (in two coats)
- Store between 10°C and 35°C
- Keep away from direct sunlight

FACTORS AFFECTING COVERAGE:

- Application technique
- Surface smoothness & porosity
- Uneven substrate profile

SAFETY & APPLICATION GUIDELINES FOR HYDAGUARD WP 12

1. PERSONAL PROTECTION

- Use protective gloves, clothing, and eye protection while handling the product.
- Keep away from children and store out of direct sunlight
- For professional use only – not intended for DIY or household application.

2. EMERGENCY PROCEDURES

- In case of skin contact, wash thoroughly with water while still wet.
- For eye contact, rinse with water and consult a physician.

3. MIXING INSTRUCTIONS

- HYDAGUARD WP 12 is ready to use and should be stirred before application.
- Do not mix with other materials like sand, cement, or chemical binders.
- Do not attempt to rework product that has started hardening by adding water.

4. SURFACE PREPARATION

- Ensure surfaces are structurally sound, clean, and free of oil, grease, dust, or sealers
- Concrete must be cured at least 14 days before application.
- Do not apply over gypsum, asphalt, particle board, luan, Masonite, or hardwood.
- Level uneven surfaces using appropriate Portland cement-based underlayment

5. INSTALLATION & PROTECTION

- Apply the first coat of HYDAGUARD WP 12 using a brush or roller and embed fabric at corners and joints.
- Apply second coat perpendicular to the first once it is dry to the touch.
- Allow each coat to dry for 2–4 hours at 70°F (21°C) and 50% RH.
- Protect installation from water or impact for at least 24 hours.
- Do not install below 40°F (5°C) or in extremely damp weather.

PERFORMANCE LIMITATIONS

- Not a finished wearing surface – should be overlaid with tile, stone, or protective boards.
- Avoid direct UV exposure for prolonged periods – limit to 30 days maximum
- Do not exceed dry film thickness of 2 mm
- Not suitable for direct application over control/expansion joints or structural cracks.
- Not intended as an exterior roofing membrane.
- Curing time depends on ambient conditions – cold or damp environments slow the cure.

End of TDS