

WP-900 HYDRO-BLOC WATERPROOF & CRACK ISOLATION MEMBRANE



PRODUCT DESCRIPTION

WP-900 is a one-component, flexible, load bearing waterproofing latex compound applied by paint roller or quality paintbrush to form a seamless waterproof membrane under ceramic tile and stone installations. WP-900 also acts as a crack isolation membrane for these same types of applications.

It may also be applied with optional reinforcing fabric for extra reinforcement in areas such as cracks and corners.

WP-900 is fast curing – flooring can be installed in 1 – 2 hours depending on site environment and substrate porosity, and flood testing may be effected after 24 hours.

BASIC USES

As a Waterproof Membrane: For use under all ceramic tile and stone installations where a waterproof surface is required.

Ideal for all wet areas such as bathrooms, showers, etc.

Suitable substrates include interior or exterior surfaces of concrete (at least 28 days old), concrete block and masonry, cement mortar beds or levelling compounds (at least 3 days old), cement backer units, existing surfaces of ceramic tile or terrazzo, gypsum wallboard (walls only, in approved application areas only) and exterior-grade plywood (for interior residential floors and countertops in dry areas only).

As a Crack Isolation Membrane: For interior use, over shrinkage or non-structural in-plane cracks up to 3 mm (1/8"). Ideal for use over concrete or concrete-based underlayments, and to cover plywood and concrete backer unit joints.

COMPOSITION AND MATERIALS

A one component system consisting of an elastomeric latex compound applied by paint roller or quality paintbrush.

Designed for optimum adhesion to most tile-setting substrates.

FEATURES

- With *Flexfresh*TM technology. Revolutionary technology that helps to inhibit the growth of mildew, fungus and other bacteria causing odours and stains in construction materials.
- Exceeds ANSI A118.10 and ANSI A118.12 standards.
- Interior and exterior waterproofing tile installation applications.
- Bridges shrinkage cracks or other non-structural in-plane cracks up to 3 mm (1/8").
- Easy to apply - just roll or brush on.
- Fast curing - flooring can be installed in 1 - 2 hours, flood testing may be effected after 24 hours.
- Cleans up with water while still wet
- Low odor & solvent free

LIMITATIONS

Not for use as an exposed traffic surface. Do not expose uncovered membrane to traffic, water or direct sunlight until fully cured. Not recommended for use as a roofing membrane over occupied areas, or on unstable surfaces such as chipboard, Masonite, metal, etc. Not recommended under negative hydrostatic conditions. Do not use where excessive substrate moisture and/or where negative hydrostatic pressure exists. Maximum allowable moisture is 1.36 kg/92.9m² (3 lbs/1000 Ft²) per 24 hours. When using as a crack

isolation membrane, do not cover existing control or expansion joints - refer to appropriate detail for installation over these joints in current editions of TTMAC or TCNA Ceramic Tile Installation Handbooks. Contact Flextile's technical department for detail recommendations for Movement Joints when applying as an integral waterproofing layer. Not for use over structural movement cracks. Use only on surfaces which are maintained above 10°C (50°F) during application and for at least 48 hours after application.

LEED Points Contribution

MR Credit 5, Regional Materials*

IEQ Credit 4.1, Low-Emitting

Materials – Adhesives & Sealants

IEQ Credit 4.3, Low-Emitting

Materials – Flooring Systems

*May be eligible

LEED Points

Up to 2 points

1 point

1 point

TECHNICAL DATA

Exceeds ANSI A118.10 and ANSI A118.12 standards

Typical Physical Properties

Colour:	Light green when wet; dark green when dry
Weight:	1,3 kg per L. (10.9 lbs. per U.S. gal)
Permeability:	0.4 perms
ASTM E96 / E96M-05	22 (ng/Pa-s-m ²)
Procedure B	
Water Vapour Transmission	0.22 g/h-m ²
ASTM E96 / E 96M – 05	
Procedure B	
Hydrostatic Resistance:	passes
Flash point:	Nonflammable
Cleanability:	With water while still wet
Dry time (before tiling):	Approx. 1-2 hrs. (when dry to touch)
Final dry thickness:	(2 coats) approx. 20-30 mils
Dry time:	(before flood-testing for shower enclosures) After 24 hours. (at normal thickness & room temperature)
Storage:	Store in cool, dry place. Protect from freezing.
Shelf Life:	1 year in unopened container stored in heated conditions

COVERAGE DATA

Single coat thickness (wet) should be 0.4 to 0.60 mm (17 to 22 MIL)
Final thickness (dry) of all coats should be approximately 0.5 to 0.75 mm (20 – 30 mils)

USE A WET FILM THICKNESS GAUGE TO CHECK THICKNESS DURING APPLICATION.

Approximate Coverage for full application:

4L : 4.64 m² (50 ft²)

20L: 23.2 m² (250 ft²)

- Coverages given are for estimating purposes only. Actual coverages may vary depending on job site conditions and installation techniques used.

For job specific installation systems, recommendations, project warranty information, or for assistance with installation specifications, please contact Flextile's technical department.

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PREPARATORY WORK

All surfaces must be clean, even, dry and free of grease, oil, loose paint, curing compounds or sealers, protuberances that may puncture cured membrane, or other foreign matter. Existing concrete surfaces which have been shot blasted, ground or sanded to remove contaminants must be thoroughly cleaned of dust, loose concrete, etc. prior to applying membrane. Surfaces should be maintained at a temperature between 10°C (50°F) and 32°C (90°F) when applying membrane. New concrete surfaces must be fully cured, dry (maximum allowable moisture is 1.36 kg/92.9m² (3 lbs/1000 Ft²) per 24 hours) finished to a wood float or light broom finish, and be true to within 6 mm (1/4") in 3 m (10').

Apply a latex modified scratch coat consisting of Flextile 57 Scratch Coat Mortar mixed with Flextile 43 or 44 Latex Additive to existing concrete surfaces where abrasion cannot produce a porous enough surface, to uneven surfaces, and to all smooth-troweled concrete surfaces prior to applying WP-900 membrane

Gaps in pipe penetrations should be packed with compressible backer rod and urethane-based sealant. Pre-treat all control joints and gaps in corners and coves that are greater than 1 mm (1/32") with proper filler material and allow to cure. Fill all openings and spaces around drains and pipes with foam backer material and urethane sealant. Remove drain flanges and apply liberal coat of WP-900 over and around the drain flange. Apply liberal coat of WP-900 around pipes. Allow to dry then apply a second liberal coat. Allow to dry. Apply bead of urethane sealant around drain flange, pipes or other penetrations, to join with the WP-900 system seam. All construction, expansion and isolation joints designed into the substrate must be carried through the tile installation. Refer to appropriate detail for installation over these joints in current editions of TTMAC or TCNA Ceramic Tile Installation Handbooks, or **contact Flextile's technical department for detail recommendations for all Movement Joints when applying as an integral waterproofing layer.**

APPLICATION

WP-900 is pre-mixed and ready to use. WP-900 may be applied by brush or heavy nap (10 mm / 3/8") paint roller. Prior to applying to general surface area, pre-treat all cracks, joints, corners and coves first, by applying a generous coat of WP-900 latex compound approximately 10 cm (4") to each side of joint or surface. Allow to dry to the touch (colour will turn Dark Green), and then apply a second coat of WP-900 latex compound to same area, again allowing to dry. Once pre-treated areas are dry (Dark Green), apply a generous coat of WP900 latex compound to entire surface, included pre-treated cracks, joints, and coves, and allow to dry. DO NOT skimp on initial coat of latex compound. Allow to dry to the touch, before applying a final coat to entire surface. Final dry thickness of first and second coats should be a minimum of 20 to 40 mils (0.5 – 1.0 mm).

Inspect entire area and, if required, reapply on required areas, and allow it to dry. Once entire installation turns darker green and is dry to the touch (approximately 1 – 2 hours), tile may be installed using approved Flextile Latex Portland Cement Mortars.

Flood tests (per ASTM D5957-98 [2005]) to be effected prior to installing finished flooring surface installations, where required.

OPTIONAL USE OF REINFORCING FABRIC

To reinforce over cracks, joints, corners, coves, floor or wall penetrations, around drains or main area to be waterproofed. Cut fabric to required sizes and place aside. Measure and pre-cut fabric to cover entire length of cracks etc. and at least 1 tile width of each side of crack (20 cm (8") minimum).

Apply a generous coat of WP-900 latex compound slightly wider than the fabric to be used over crack, with a brush or roller. Embed reinforcing fabric into wet latex compound with a roller or brush so that latex bleeds through fabric. Once fabric is thoroughly embedded, apply a second coat of latex compound to create a void-free membrane, and allow to dry. Apply a final coat of latex compound to entirely cover the fabric.

CURING AND TILE INSTALLATION

Final coat of WP-900 must be dry to the touch and dark green in colour prior to installation of tile flooring. Approximate drying time is 1 – 2 hours at 20° C (70° F) with 50% Relative Humidity. Flood tests are required prior to installing finished flooring surface in critical installations. WP-900 should be cured for at least 24 hours at room temperature prior to conducting flood test. For tile and stone installations use appropriate Flextile latex-modified mortars (ANSI A118.4- 1992). Refer to Flextile's product data sheets and current TTMAC or TCNA installation handbooks for product recommendations and installation procedures.

SAFETY

Refer to Flextile Material Safety Data Sheet for detailed health and safety information.

AVAILABILITY AND COSTS

WP-900 is available from Flextile Ltd. and listed distributors in units of 20 L (5.3 U.S. gals.), and 4 L (1.06 U.S. gals.).

OPTIONAL REINFORCING FABRIC

23.2 m² (76cm X 30.5m) (30in. X 100ft (250sf))

4.7 m² (76cm X 6.1m) (30in. X 20ft (50sf))

2.9 m² (19cm X 15.2m) (7.5in. X 50ft (31.25sf))

Cost data is available upon request.

WARRANTY

Flextile warrants that this product is of merchantable quality and is suitable for the purpose for which it is intended. Flextile's liability under this warranty shall be limited to replacement of its product found to be defective or, at its option, a refund of the purchase price.

MAINTENANCE

No maintenance is required except where damages result from unforeseen circumstances. Repair procedures shall be directed by Flextile or its distributors.

TECHNICAL SERVICES

Flextile maintains a well-equipped laboratory able to test its products in conjunction with the products with which they are used. Technical assistance for use of Flextile products is available upon request.

RELATED REFERENCES

Current editions of TTMAC 09 30 00 & TCNA Ceramic Tile Installation Manuals.

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RECOMMENDED USES

- Waterproofing ceramic tile or stone installations
- Commercial or residential use
- Tubs, shower pans
- Vertical or horizontal applications
- Exterior ceramic tile cladding
- Over concrete or masonry surfaces
- Over concrete backer units
- On exterior decks or balconies Δ
- Over plywood or gypsum wallboard ∞
- Over existing ceramic tile surfaces
- Over in-floor heating systems $\infty \Sigma$
- Over floor leveling systems Σ
- Over shrinkage or other non-structural cracks in concrete substrates ∞
- over CBU or plywood sheet joints ∞

∞ Interior use only

Σ Some gypsum-based leveling systems may not be acceptable.

Check with Flextile Ltd.

Δ Refer to TTMAC 09 30 00 detail 325F-2002 detail for exterior decks

NOT RECOMMENDED

- As an exposed traffic surface
- As an exposed membrane surface
- As a primary roofing membrane over occupied areas
- For use under negative hydrostatic conditions
- Over existing expansion or control joints
- Over structural movement cracks
- Over metal, particle board, chip board or other surfaces considered unacceptable for ceramic tile or stone installations

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