

Product Description

Product numbers -HBUCPLM18 and HBUCPLM14 are high performance, lightweight uncoupling membranes that provide a vapor barrier and waterproofing with the added benefit crack isolation. It is designed to be installed as an underlayment for ceramic and porcelain tile and natural stone for both residential and commercial applications. Hydro-Blok uncoupling membrane is designed to be installed over 3/4 (19mm) Plywood/OSB, with a deflection not greater than L/360 (per TCNA guidelines) as well as over concrete substrates. Hydro-Blok uncoupling membrane will absorb horizontal movement up to 1/8" greatly reducing potential cracking to grout and/or tiles.

Benefits of Hydro-Blok uncoupling membrane

- ◆ Easy to cut with a razor knife.
- ◆ Fleece backing to ensure a quality bond.
- ◆ Our design allows easy filling of the membrane.
- ◆ Reduced roll memory.
- ◆ Lightweight for easy transportation.
- ◆ Waterproof.
- ◆ Provides a vapor barrier.

Industry Standards and approvals

- ◆ Exceeds Ansi: a118.10 for waterproofing membrane for thin-set ceramic tile.
- ◆ Exceeds Ansi: a118.12 section 5.13-Achieves bond strength of 50 psi(0.34 MPa) or greater in 7 days.
- ◆ Passes Ansi: A118.12 section 5.2.3- Passes Point load resistance after 28-day cure.
- ◆ Passes ASTM D4551-12 Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane (Anti Fungal)

Uses

- ◆ Residential homes, apartments, and condominiums.
- ◆ Commercial buildings such as office buildings, restaurants, hotels, and malls.



Substrate Requirements

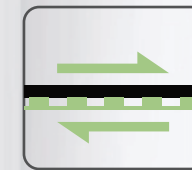
- ◆ All suitable substrates should be structurally sound, stable, dry, clean, and free of any substance that might prevent proper adhesion.
- ◆ Mechanical methods only for prepping concrete (grinders etc.) No chemical etching.
- ◆ The substrate must be of an ambient temperature between 50 and 100 degrees Fahrenheit before and 72 hours after the installation.
- ◆ Approved exterior plywood subflooring.
- ◆ Cement mortar beds.
- ◆ Self-leveling.
- ◆ L360 minimum deflection rating per TCNA

Limitations

- ◆ Do not install over a substrate with a crack over 1/8(3mm) out of plane. Note: HYDRO-BLOK uncoupling membranes do not protect against vertical substrate movement.
- ◆ Do not use when hydrostatic pressure exists.
- ◆ Do not install using premixed products such as mastic.
- ◆ Do not install over substrates containing asbestos, wood stripping, pressboard, oil treated boards, self-stick tile, metal, or epoxy floor, and Sheet Vinyl
- ◆ Do not install tile or stone smaller than 2x2 without prefilling the membrane and allowing to cure for 24 hrs.
- ◆ Use Hydro-Blok sealant at seams to maintain waterproofing.
- ◆ Do not install self-leveling over the top of membrane. If the floor needs to be leveled it must be done prior.

HYDRO-BLOK
The BETTER Shower System

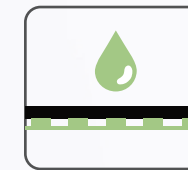
UNCOUPLING MEMBRANES



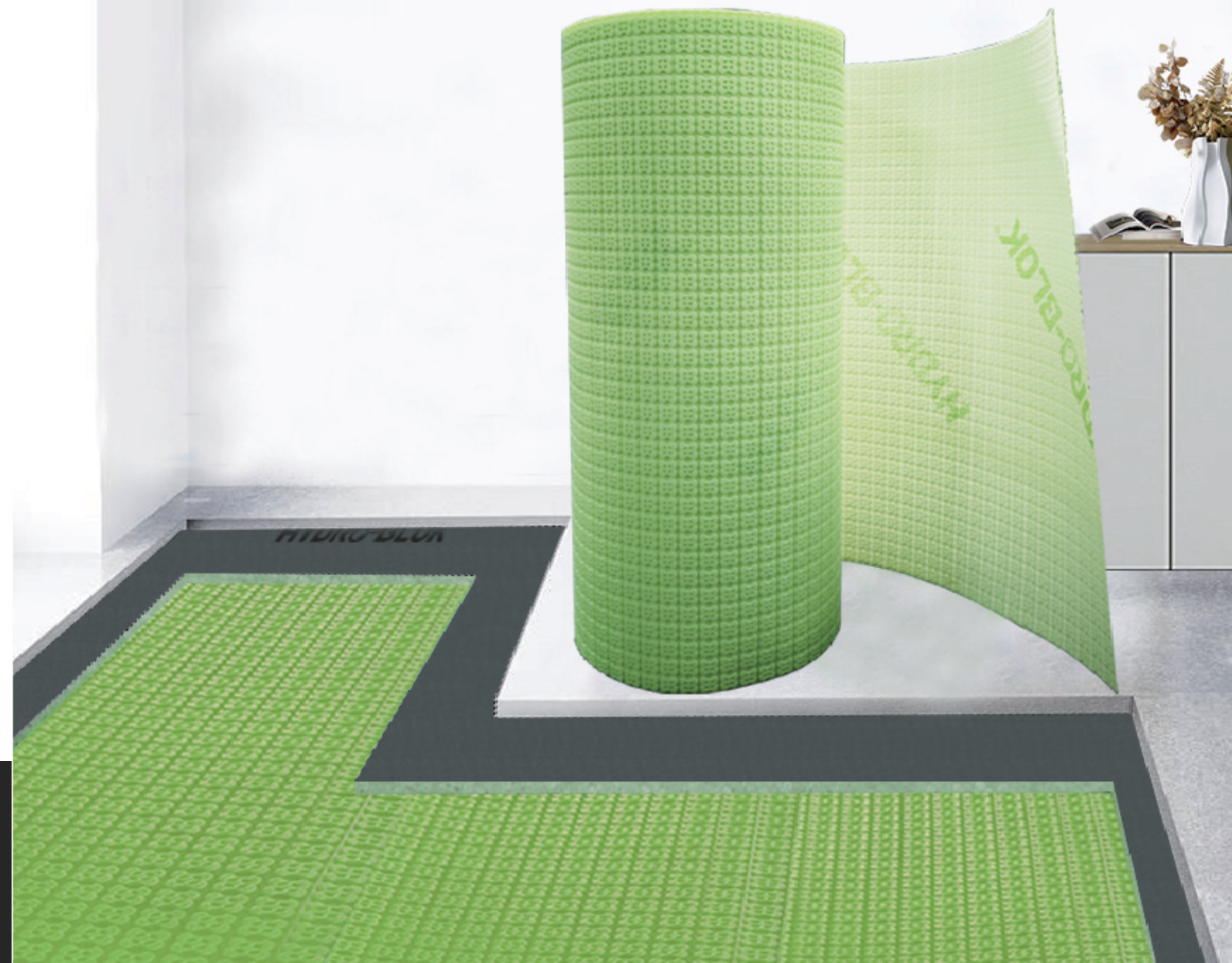
Anti-cracking



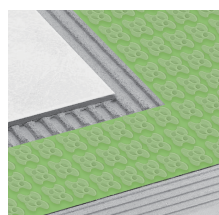
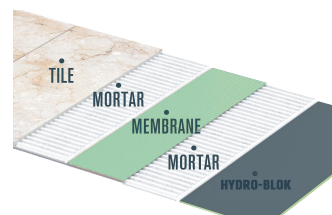
Damp proof



Waterproofing



Uncoupling Membrane Installation Guide



Materials and Tools

- Hydroblok Uncoupling Membrane
- Modified Mortar
- Notched trowel
- Utility knife
- Measuring tape
- Straightedge
- Rubber mallet

1 Prepare the Substrate:

Ensure that the substrate (floor or wall surface) is clean, dry, and free of debris. Repair any cracks or imperfections in the substrate. Level the floor if necessary.

2 Measure and Cut:

Measure the area where you will be installing the Hydro-Blok Uncoupling Membrane.

Cut the membrane to the required size using a utility knife. Use a utility knife to cut openings for drains, corners, and other obstacles. Ensure a tight fit around these areas.

3 Apply Thin-Set Mortar:

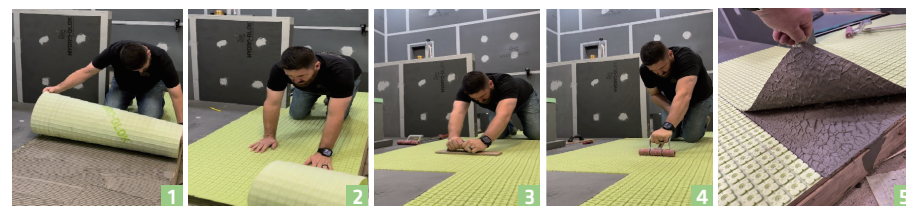
Using a mortar that meets a minimum of A NSI: A118.12. Mix the thin-set mortar according to the manufacturer's instructions. Using a wet sponge wipe down the area and add mortar.

Using a 1/4x1/4 square notched trowel, apply an even layer of mortar to the substrate combing in the notches one direction.



4 Install the Uncoupling Membrane:

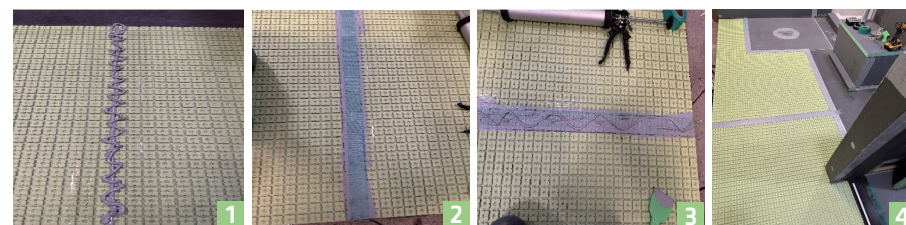
Press the Hydro-Blok Uncoupling Membrane into the thin-set mortar. Use a Wood Float, Weighted Roller, or a similar tool to flatten the membrane and remove any air pockets or wrinkles. Periodically lift the corner of the membrane for inspection ensuring 100% coverage for a solid bond.



5 Seam Joints:

When connecting one or more pieces of membrane together seams will need to be sealed with HYDRO-BLOK Sealant. Butt membrane edges together ensuring that the butt joints do not contain cut pillows (flat edges only). Clean off any excess mortar that is squeezed out between the seams. Apply a generous bead of Joint Sealant to the seam between the membranes to ensure 1" of coverage on each side of the seam and flush to the top of the pillows on the membrane. Tool the sealant flat with a putty knife or flat trowel).

Allow a minimum of 1 hour to dry prior to filling the membrane with mortar or tile installation.



6 Install Tiles:

Once the uncoupling membrane is in place you can then install tiles directly on top of the membrane using an appropriate mortar. Start by using the flat side of the trowel to fill all voids between pillows. Use the notch side of trowel to apply mortar in one direction then reverse, ensuring you fill in all the spaces on the membrane. When using tiles smaller than 2x2 allow the mortar to set overnight before installing tile.

7 Grout Joints:

After the tiles are set, allow the installation to cure according to the mortar manufacturer's instructions. Grout the joints between the tiles using a suitable grout.

Barrier Free Application

When using Hydro-Blok Uncoupling membrane (HBUCPLM14) with a Hydro-Blok LOW-PROFILE shower pan for a Barrier free shower, please follow these steps.

- Using a 1/4x1/4 square notch trowel, apply an ANSI: A118.12 mortar from the edge of notch of the pan and on the subfloor where the uncoupling will be applied.
- Apply a 3/8" bead of HYDRO-BLOK Joint Sealant into notch on the pan.
- Lay uncoupling membrane into the pan notch creating the 1/2" overlap onto the pan
- Clean any excess mortar that squeezes through the seam.
- Apply a generous bead of Joint Sealant to the seam between the membrane and pan to ensure 1" of coverage on each side of the seam and flush to the top of the pillows on the membrane. Tool the sealant flat with a putty knife or flat trowel. Cut 2" mesh tape to within 3" of the ends and press the mesh tape into the existing Joint Sealant working from the center out, smoothing any wrinkles. Apply another continuous 1/2" bead of joint sealant on top of the mesh tape smooth with the putty knife to fully cover the mesh tape.
- Set mesh tape into the sealant tooling it flat to embed into the sealant.
- Apply another bead of sealant to the top and spread flat to flush out to the top of the membrane and pan.
- Allow a minimum of 1 hour to dry prior to tile installation.



Due to capillary action of water through the thinset layer between the shower pan and tile, it is necessary to waterproof the floor out a minimum of 4', and up the walls at least 2" to protect the area immediately outside the shower. This minimum does not supersede any building code requirements so please check with your local jurisdiction before proceeding with installation.

In order for the pan and membrane to complete a flush transition prior to tiling, the HYDRO-BLOK LOW PROFILE PAN must be recessed by 3/4" so that the membrane can be placed into the 1/4" x 1/2" notch in the pan flushing out with the top side of the pan.

Waterproof the membrane to the wall

When connecting uncoupling membrane to walls to create a waterproof barrier, HYDRO-BLOK wallboard must be used at least 6" up the wall.

- Install the membrane to the subfloor per instructions above, and to within 1/8" of the adjacent wall material.
- Apply a generous bead of Joint Sealant to the transition between the membrane and the wall to ensure 1" of coverage on the membrane and flush to the top of the pillows, then 2" up the walls.
- Tool the sealant flat with a corner putty knife or flat trowel. Cut 2" mesh tape to within 3" of the ends and press the mesh tape into the existing Joint Sealant so that there is 1" of coverage on the membrane and 1" up the wall.
- Use the corner putty knife or flat trowel and working from the center out, smoothing any wrinkles. Apply another continuous 1/2" bead of joint sealant on top of the mesh tape smooth with the putty knife or trowel to fully cover the mesh tape.