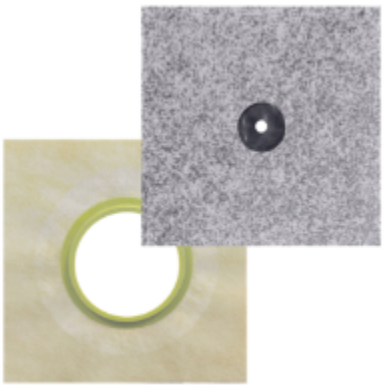
HYDRO BAN® Pipe Collar & Mixing Valve Seal

DS-65486-0326

Globally Proven Construction Solutions



1. PRODUCT NAME
HYDRO BAN® Pipe Collar & Mixing Valve Seal

2. MANUFACTURER
LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION
The HYDRO BAN® Pipe Collars and Mixing Valve Seal are preformed, fleece-backed waterproofing components designed to provide reliable seals around shower valve and pipe penetrations. These sheet membrane accessories eliminate the need for field fabrication or modification, reducing installation time and the risk of leaks at critical transition points.

The 4½" (114 mm) Mixing Valve Seal is ideal for sealing around standard shower valves and control assemblies, while the ¾" (20 mm) Pipe Collar fits snugly around ½" – ¾" (12.7 – 20 mm) pipes. Both components are compatible with HYDRO BAN® Sheet Membrane, HYDRO BAN® Board and liquid-applied HYDRO BAN® waterproofing membranes.

Pre-formed for consistency and reliability, these collars and valve seals are essential components in a complete LATICRETE waterproofing system.

Uses
- Interior applications
- Showers or tub surrounds
- Bathrooms
- Commercial and residential kitchens
- Backsplashes
- Walls and floors
- Wet areas
- Steam Showers / Steam Rooms

Advantages
- Pre-formed and pre-cut – ensures a precise, professional-grade seal for valves and pipe penetrations.
- 4 1/2" (114 mm) mixing valve collar – designed to seal around standard shower mixing valves.
- 3/4" (20 mm) pipe collar – for use with 1/2" – 3/4" pipe sizes (12.7 – 20mm)
- Fleece-backed sheet membrane – bonds seamlessly with HYDRO BAN® Sheet Membrane and adhesive mortar.
- Recommended for steam showers – use with HYDRO BAN® Board or Sheet Membrane for vapor-tight installations.
- Part of the HYDRO BAN® Shower System – eligible for a lifetime system warranty.

Suitable Substrates (Interior Use Only)
- Concrete
- Concrete Masonry
- Brick Masonry
- Cement Mortar Bed
- Cement Plaster
- Gypsum Wallboard
- Exterior Glue Plywood (Interior Only)
- Ceramic Tile and Stone
- Cement Terrazzo
- Cement Backer Board
- Poured Gypsum Underlayment

Packaging
See Packaging and Approximate Coverage Table

Data Sheets are subject to change without notice. For latest revision, visit laticrete.com.

Approximate Coverage

HYDRO BAN® Peel & Stick Pipe Collar	
3/4" (20mm) Pipe Collar	50 Collars per Box
HYDRO BAN Pipe Collar	
3/4" (20mm) Pipe Collar	1 per bag 12 bags per box

Limitations

- Do not bond to particle board, luan, OSB, interior glue plywood, Masonite® or hardwood surfaces.
- Do not use as a primary roofing membrane over occupied space. For more information on installation of tile over wood decks, or, over occupied or finished spaces please refer to TDS 157 “Exterior Installation of Tile and Stone Over Occupied Space.”
- Do not use over dynamic expansion joints, structural cracks or cracks with vertical differential movement.
- HYDRO BAN® Sheet Membrane is not recommended for submerged applications. For these applications, use HYDRO BAN waterproofing membrane.
- Do not use over existing cracks.
- Do not expose to negative hydrostatic pressure, rubber solvents or ketones.
- Must be covered with ceramic tile, stone, brick, screeds, terrazzo, or other traffic-bearing finish. Use protection board for temporary cover.
- Do not install directly over single layer wood floors, plywood tubs/showers/fountains or similar constructs.
- Not for use beneath cement or other plaster finishes. Consult with plaster manufacturer for their recommendations when waterproofing membrane is required under plaster finishes.
- Not for use under self-leveling underlayments or decorative wear surfaces.
- Not for use in steam showers or steam rooms
- Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.
- Consult gypsum board manufacturer and local building code for use in wet areas

Cautions

- Protect finished work from traffic until fully cured.
- Use care not to damage HYDRO BAN Sheet Membrane prior to installation of tile or stone finishes. Cover with protection board to protect from foot traffic and other trades when installing on horizontal surfaces.
- Wait a minimum of 24 hours after the installation before flood testing in order to allow the thin-set to fully cure and insure the integrity of all seams.

4. TECHNICAL DATA

Applicable Standard

- ANSI A118.10 - Exceeds all requirements
- ASTM E96/E96M Procedure E-0.06 Perms - approved for steam showers / rooms as single membrane
- IAPMO approved

Physical Properties

Working Properties

HYDRO BAN Sheet Membrane products are constructed of two outer layers of non-woven polypropylene and one inner layer of polyethylene. This three layer membrane when properly installed will protect tile installations from moisture migration and minor substrate cracking.

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

HYDRO BAN PEEL & STICK PIPE COLLAR

Surface Preparation

Surface temperature must be 50 – 90°F (10 – 32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a suitable LATICRETE underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10 ft (6 mm in 3 m) with no more than 1/16" in 1 ft (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water—installation may be made on a damp surface.

1. Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations and L/600 for all exterior veneer applications where L=span length.
2. Minimum construction for interior plywood floors.

Treat Cracks & Joints

Fill all substrate cracks, cold joints, and control joints to a smooth finish using a LATICRETE® polymer fortified thin-set.

Application

- Clean Surface of dust, dirt and debris.
- Identify number of nail circles required for project
- Remove HYDRO BAN® Peel & Stick Pipe Collar from release liner.

- Placing one edge of the tacky membrane on the designated surface.
- Firmly press collar onto the surface using flat edge of trowel or grout float from one edge of the membrane to the other, removing air bubbles.

Control Joints
Ceramic tile, stone and brick installations must include sealant filled joints between the ceramic tile, stone of brick which is over any control joints in the substrate. However, the sealant filled joints can be offset horizontally by as much as one tile width from the substrate control joint location to coincide with the grout joint pattern.

Movement Joints
Ceramic tile, stone and thin brick installations must include expansion joints at coves, corners, other changes in substrate plane and over any expansion joints in the substrate. Expansion joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in
the Tile Council of North America, Inc. (TCNA) Handbook Installation Method EJ171. Use LATASIL™ and backer rod.

HYDRO BAN PIPE COLLAR

Surface Preparation
Surface temperature must be 50 – 90°F (10 – 32°C) during application and for 24 hours after installation. All substrates must be structurally sound, clean and free of dirt, oil, grease, paint, laitance, efflorescence, concrete sealers or curing compounds. Make rough or uneven concrete smooth to a wood float or better finish with a suitable LATICRETE underlayment. Do not level with gypsum or asphalt based products. Maximum deviation in plane must not exceed 1/4" in 10 ft (6 mm in 3 m) with no more than 1/16" in 1 ft (1.5 mm in 0.3 m) variation between high spots. Dampen hot, dry surfaces and sweep off excess water—installation may be made on a damp surface.

1. Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations and L/600 for all exterior veneer applications where L=span length.
2. Minimum construction for interior plywood floors.

SUBFLOOR: 5/8" (15 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to with construction adhesive.

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 “Bonding Ceramic Tile, Stone or Brick Over Wood Floors” for complete details.

Treat Cracks & Joints
Fill all substrate cracks, cold joints, and control joints to a smooth finish using a LATICRETE® polymer fortified thin-set.

Application
- Measure and cut all of the HYDRO BAN® Sheet Membrane sections and HYDRO BAN Sheet Membrane Sealing Tape strips to the proper size before mixing the substrate appropriate LATICRETE thin-set.
- Mix the LATICRETE thin-set to a fairly wet consistency but still able to hold a notch. Dampen excessively dry porous surfaces in order to prevent premature drying and skinning of the thin-set. If skinning does occur remove thin-set and reapply using fresh mortar.
- To create the watertight system, the installation process will rely on the layering of components; start with the corners: Apply thin-set mortar with a ¼”x 3/16” (6 mm x 5 mm) V-notched trowel. Press the HYDRO BAN Sheet Membrane Corners firmly into the thin-set. Remove any trapped air and guarantee full adhesion to the material by spreading the thin-set from the inside of the corner out using a trowel or straightedge with rounded corners.
- Continue with thin-set along the floor-to-wall transition from the corner outward for the first strip of HYDRO BAN Sheet Membrane Sealing Tape. Overlap the corners by 2” (50 mm).
- Lay the tape and remove all air pockets and excess material as with the corner piece.
- For any sections where two strips of HYDRO BAN Sheet Membrane Sealing Tape will be joined, be certain to overlap the material by 2” (50 mm).
- Continue with these steps around the perimeter of the installation.
- Treat the vertical corners with the HYDRO BAN Sheet Membrane Sealing Tape next in the same manner as the floor-to-wall transitions were
- installed. Overlap the corners by 2” (50 mm).
- Treat pipe penetrations and mixing valves by applying thin-set mortar with a ¼”x 3/16” (6 mm x 5 mm) V-notched trowel. Slide the appropriate HYDRO BAN Sheet Membrane Pipe Collar over the pipe or mixing valve and press firmly into the thin-set. The urethane rubber will seal around the pipe or mixing valve. Remove any trapped air and guarantee full adhesion to the material by spreading the thin-set from the inside out using a trowel or straightedge with rounded corners.

- Important, there should not be excessive overlapping. For example, at the corner, the HYDRO BAN® Sealing Tape should overlap the HYDRO BAN Sheet Membrane Corner but not the adjacent HYDRO BAN Sheet Membrane Sealing Tape.
- Continue the same method to install the first HYDRO BAN Sheet Membrane section on the wall. Start in the completed corner and work your way out from the corner to the edge of the installation. Apply the thin-set to the surface of the wall with the ¼"x 3/16" (6 mm x 5 mm) V-notched trowel. If the surface is uneven, use a square-notched trowel with a wider tooth up to 3/8" (9 mm). Be sure to comb all of the thin-set in the same direction.
- Install the first length of sheet membrane. It may be easiest to unroll it up the wall or in the direction that you combed the thin-set. Remember to overlap the membrane by a minimum of 2" (5 cm). Be certain to leave at least ¼" (6mm) of space from the floor.
- Smooth the section of HYDRO BAN Sheet Membrane with a flat trowel or roller from the middle towards the outside edges to assure that no air is trapped underneath. Follow the direction that the thin-set was combed onto the substrate.
- Use short, firm strokes to press out all of the excess thin-set and trapped air. Carefully remove or spread the excess thin-set over the seams.
- Apply the thin-set for the next length of HYDRO BAN Sheet Membrane section. Roll the next length upwards; smoothing it as it is pressed into the thin-set.
- If a bulge or crease appears during the unrolling, it is OK. Simply peel the section carefully away from the wall and reapply it so that it is flat. The sections should always be well pressed; the use of a roller is recommended but this can also be accomplished with a flat trowel.
- Squeeze out any extra thin-set at the seams; remove the excess or spread it uniformly down the seam.
- The remaining lengths can now be installed in this same manner.
- Best practice; sections of HYDRO BAN Sheet Membrane should be butt-jointed and the seam between the HYDRO BAN Sheet Membrane sections should be covered with HYDRO BAN Sheet Membrane Sealing Tape installed with the appropriate thin-set. Make sure that the HYDRO BAN Sheet Membrane Sealing Tape overlaps each HYDRO BAN Sheet Membrane section by a minimum of 2" (5 cm). The floor should be the last section installed.
- NOTE: Sections of HYDRO BAN® Sheet Membrane may also be shingled (overlapped) during installation without the need for HYDRO BAN Sheet Membrane Sealing Tape. The top section must overlap a minimum of 2" (5cm) onto the bottom section of HYDRO BAN Sheet Membrane.
- If the HYDRO BAN Sheet Membrane is damaged after installation apply a patch of HYDRO BAN Sheet Membrane installed with the appropriate thin-set. The patch must overlap the damaged area by a minimum of 2" (5 cm).
- Tiling can begin immediately after installation when a flood test is not required.

Clamping Ring Drains

- When installing HYDRO BAN Sheet Membrane with a clamping ring type drains with weepers as per ASME A112.6.3, lay the HYDRO BAN Sheet Membrane over the top of the drain and cut an x where each bolt will penetrate the membrane. Cut a hole in the membrane to allow the drain grate to be threaded into the clamping ring. (Use of a fabric circle cutter is recommended).
- Install the HYDRO BAN Sheet Membrane, making sure to align the previously cut holes for the bolts and drain throat. Ensure that the weep holes are not blocked.
- Apply bead of LATASIL™ to the clamping body just outside of the bolts, place clamping ring into position and tighten bolts. Check to make sure that weep holes are not plugged by any material.

HYDRO BAN® Bonding Flange Drains

Follow the instructions in DS 035.0 for the installation of the HYDRO BAN® Bonding Flange Drain in either a bonded or unbonded mortar bed. When the mortar is cured enough to walk on the HYDRO BAN Sheet Membrane can then be installed.

Install the HYDRO BAN Sheet Membrane over the mortar bed and the HYDRO BAN Bonding Flange using 253 Gold or 254 Platinum thin-sets. Insure that the HYDRO BAN Sheet Membrane extends to the first 90° radius of the HYDRO BAN Bonding Flange Drain.

Apply thin-set mortar with a 1/4" x 3/16" (6mm x 5mm) V-notched trowel. Press the HYDRO BAN Sheet Membrane firmly into the adhesive. Remove any trapped air and guarantee full adhesion to the material by spreading the adhesive from the inside out using a trowel or straightedge with rounded corners.

The adjusting ring is installed with a polymer fortified thin-set when installing the tile in order to line up the grate with the tile.

HYDRO BAN Linear Drains

- Follow the instructions in DS 034.0 for the installation of the HYDRO BAN Linear Drain in either a bonded or unbonded mortar bed. When the mortar is cured enough to walk on the HYDRO BAN Sheet Membrane can then be installed.
- Install the HYDRO BAN Sheet Membrane over the mortar bed and the HYDRO BAN Linear Drain flange using 253 Gold or 254 Platinum thin-sets. Insure that the HYDRO BAN Sheet Membrane extends to the first 90° radius of the HYDRO BAN Linear Drain channel.
- Apply thin-set mortar with a ¼"x3/16" (6 mm x 5 mm) V-notched trowel. Press the HYDRO BAN Sheet Membrane firmly into the adhesive. Remove any trapped air and guarantee full adhesion to the material by spreading the adhesive from the inside out using a trowel or straightedge with rounded corners.

Flood Testing

Allow adhesive to cure fully before flood testing, a minimum of 24 hours after final cure at 70°F (21°C) and 50% RH. Cold and/or wet conditions will require a longer curing time.

Control Joints
Ceramic tile, stone and brick installations must include sealant filled joints between the ceramic tile, stone of brick which is over any control joints in the substrate. However, the sealant filled joints can be offset horizontally by as much as one tile width from the substrate control joint location to coincide with the grout joint pattern.

Movement Joints
Ceramic tile, stone and thin brick installations must include expansion joints at coves, corners, other changes in substrate plane and over any expansion joints in the substrate. Expansion joints in ceramic tile, stone or brickwork are also required at perimeters, at restraining surfaces, at penetrations and at the intervals described in
the Tile Council of North America, Inc. (TCNA) Handbook Installation Method EJ171. Use LATASIL™ and backer rod.

Cleaning
Clean tools and tile work with water while mortar is fresh.

6. AVAILABILITY AND COST

Availability
LATICRETE materials are available worldwide.

For Distributor Information, Call:
Toll Free: 1.800.243.4788
Telephone: +1.203.393.0010
For on-line distributor information, visit LATICRETE at **laticrete.com**

Cost
Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:
- 1 Year Product Warranty (US) (English)
- 5 Year System Warranty (US) (English)
- 10 Year System Warranty (US) (English)
- 25 Year System Warranty (US) (English)
- Lifetime System Warranty (US) (English)

8. MAINTENANCE

Non-finish LATICRETE and LATAPOXY installation materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical Assistance
Information is available by calling the LATICRETE Technical Service Hotline:
Toll Free: 1.800.243.4788, ext. 1235
Telephone: +1.203.393.0010, ext. 1235
Fax: +1.203.393.1948

Technical and Safety Literature
To acquire technical and safety literature, please visit our website at **laticrete.com**.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:
- DS 230.13: LATICRETE Product Warranty
- DS 230.05: LATICRETE 5 Year System Warranty
- DS 230.10: LATICRETE 10 Year System Warranty
- DS 025.0: LATICRETE 25 Year System Warranty
- DS 230.99: LATICRETE Lifetime System Warranty
- DS 677.0: 254 Platinum
- DS 663.0: HYDRO BAN
- DS 6200.1: LATASIL
- DS 035.0: HYDRO BAN Bonding Flange Drain
- DS 034.0: HYDRO BAN Linear Drain
- TDS 157: Exterior Installation of Tile and Stone Over Occupied Space

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