

1. PRODUCT NAME

UCM

2. MANUFACTURER

PROFLEX® Products, Inc.
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3. PRODUCT DESCRIPTION

PROFLEX® UCM is designed specifically for ceramic tile and dimension stone installations serving as an uncoupling layer and vapor management layer that accommodates moisture from beneath the tile covering. UCM can be used as a shower pan, exterior drainage mat and waterproofing mat. An added bonus to UCM is its sound deadening characteristics not normally found in uncoupling waterproofing mats.



Advantages

- Uncoupling
- Waterproofing and vapor reduction
- Crack suppression
- 1/3 less mortar needed
- Reduces sound transmission
- Use with tile, extra large tile, hardwood or laminates
- Fast and easy installation with no down time. Just cut with a utility knife.
- Install with a non-modified mortar, modified mortar
- When used in a complete PROFLEX® system, eligible for a 25 year warranty

Suitable Substrates

- Concrete
- Plywood
- Gypsum
- Cement Board or OSB Board

Companion Products

Hydra Mat Preformed Outside Corner	Hydra Mat Preformed Inside Corner	Hydra Mat Seam Tape

4. TECHNICAL DATA

Product Description	
Material Composition	Substrate: Polypropylene non-woven Membrane: Modified polyethylene Filling: Quartz sand Cover: Polypropylene non-woven with polyethylene coating
Application	Waterproofing and decoupling membrane to be applied under tiles and stones. For indoor and outdoor use.
Color	Blue (Other colors in accordance to RAL upon request)
Total thickness (approx.)	1/8" (0.125 inches)
Material weight (approx.)	51 lbs.
Resistance to temperature: min. / max.	-30°C / + 90°C
Square Footage	3' 3" x 33' (108 sq. ft.)
Sound Test	IIC: 61 STC: 62 Tested on a 6" concrete slab with a Gypsum panel ceiling

Physical Properties: (approx.)	DIN	Value
Pressure Test - Compression	Internal	30.5%
Bonding strength	DIN EN 1348	0.2 n / mm ² *
* in dependence of the used adhesive.		
Certified according to DIN EN ISO 9001 : 2015		

5. INSTALLATION

Installation Instructions for UCM as an Uncoupling Membrane / Exterior Balcony Waterproofing

- Not for use over expansion joints (structural design joints) or structural (out-of-plane) movement cracks. Use of this product does not eliminate the need for movement joints, including perimeter joints within the tiled surface. Perimeter expansion of 1/4" minimum must be maintained for warranty. Movement joints shall be installed within the industry standards in the publications listed in point 2 of the Cautions and Limitations section of this publication. Not recommended for use on concrete floors when hydrostatic pressure is present. PROFLEX® recommends testing the substrate prior to installation of product using a Calcium-Chloride (CaCl) test kit, and /or concrete test for relative humidity (Rh). Impervious tile (less than 0.5% absorption) may require a 48- hour cure prior to grouting. The mortar will be sandwiched between two non absorptive materials and will require additional cure time.
- Start by preparing the surface. The substrate should be clean and free of debris and dirt.
- It is recommended to measure and cut all of the membrane sections prior to mixing setting material to keep the installation within thinset manufactures working/open time limitations. Keep in mind to cut any holes required for electric penetrations.
- For exterior balcony waterproofing, PROFLEX® Inside and Outside Corners will need to be utilized as well as Seaming Tape. Refer below to Steps 6, 7, 8, and 9 under *Installations Instructions for Waterproof Shower Systems with Accessories*.
- Apply PROFLEX® Super Stick thinset (or other approved ANSI 118.11 rated thinset) with a 1/8" to 1/4" V-notched trowel, preferably with slightly rounded edges to prevent damaging the material when pressing it into place and smoothing it out. Add enough thinset to completely cover the area of the piece that is being installed. Unroll the pre-cut sections of sheet membrane from the bottom of the wall upwards. The sheet membrane should be a distance of 3/16" from the floor. Press the sheet membrane into the thinset. Using the flat side of the trowel starting from the center and moving to the edges of the membrane, remove all of the air pockets and excess thinset to ensure a good bond.
- Once the membrane is installed, tiling can begin immediately.

Installation Instructions for UCM as an Uncoupling Waterproof Shower System with Accessories

1. Not for use over expansion joints (structural design joints) or structural (out-of-plane) movement cracks. Use of this product does not eliminate the need for movement joints, including perimeter joints within the tiled surface. Perimeter expansion of 1/4" minimum must be maintained for warranty. Movement joints shall be installed within the industry standards in the publications listed in point 2 of the Cautions and Limitations section of this publication. Not recommended for use on concrete floors when hydrostatic pressure is present. PROFLEX® recommends testing the substrate prior to installation of product using a Calcium-Chloride (CaCl) test kit, and /or concrete test for relative humidity (Rh). Impervious tile (less than 0.5% absorption) may require a 48- hour cure prior to grouting. The mortar will be sandwiched between two non absorptive materials and will require additional cure time.
2. Start by preparing the surface. The substrate should be clean and free of debris and dirt.
3. It is recommended to measure and cut all of the membrane sections and sealing tape strips to size and fit prior to mixing setting material to keep the installation within thinset manufactures working/open time limitations. Keep in mind to cut any holes required for electric penetrations.
4. The wall sections of sheet membrane are first. It is best to start in the corner and work out towards the ends. Apply PROFLEX® Super Stick thinset (or other approved ANSI 118.11 rated thinset) with a 1/8" to 1/4" V-notched trowel, preferably with slightly rounded edges to prevent damaging the material when pressing it into place and smoothing it out. Add enough thinset to completely cover the area of the piece that is being installed. Unroll the pre-cut sections of sheet membrane from the bottom of the wall upwards. The sheet membrane should be a distance of 3/16" from the floor. Press the sheet membrane into the thinset. Using the flat side of the trowel starting from the center and moving to the edges of the membrane, remove all of the air pockets and excess thinset to ensure a good bond. The next wall section of sheet membrane should abut, not overlap, the previous panel. Continue to install wall sections.
5. For floor sections: For waterproofing use your pre-cut floor piece of Hydra Mat® or for waterproofing and sound control use your pre-cut piece of UCM.
6. Place a preformed corner in the thinset. Ensure that the thinset is spread by working the flat side of the trowel from the inside of the corner to the outer edge. It is very important that no air bubbles are trapped between substrate and membrane. The corner should be smooth and firmly embedded into the thinset.
7. Apply thinset to the top of the already installed corner covering at least 2" of the corner. The tape will overlap the corner approximately 2" to guarantee a proper seal. Begin laying the tape from the corner outward along the joint. Gently press the sealing tape into the joint with the edge of the trowel. It is possible to make adjustments as needed if the tape is uneven or out of place. Once the tape is in position, spread the thinset underneath the tape to be certain that no air bubbles are left behind. It will be easiest to work from the center of the tape out to the edge. Remove all excess thinset until the material is smooth. The thinset, when spread smoothly, will result in airtight adhesion to the substrate.
8. Continue to install sealing tape and corners around the perimeter of the base. Repeat steps 5 and 6 as necessary. Important Note: Do not double overlap. The sealing tape will overlap the corner components, but should never overlap the corner and the next section of sealing tape.
9. Cover the seams between abutted wall sections with thinset. Apply joint sealing tape to the seam. The tape should overlap either side of the seam by at least 2". Carefully press and smooth the tape to remove all air pockets and create a good bond. Continue until all seams are covered.
10. All penetrations in the membrane, such as inlet pipes, should be sealed. Apply thinset to the area around the pipe. Push a PROFLEX® Pipe Collar gasket over the pipe, and PROFLEX® Mixing Valve Collar over the HYDRA MAT. Do not pull the gasket off the pipe once installed. The bulge from the flexi-collar must extend outward.
11. Once the membrane is installed, tiling can begin immediately.

6. AVAILABILITY

PROFLEX® Products are available nationwide.

To locate PROFLEX® products in your area, please contact:

Phone: 877-577-6353

Website: www.proflex.us

7. WARRANTY

For warranty details, visit our website www.proflex.us

8. MAINTENANCE

Not applicable

9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the Technical Support

Toll Free: 877-577-6353

Fax: 863-937-9624

Technical and safety literature

To acquire technical and safety literature, please visit our website www.proflex.us

10. FILING SYSTEM

Division 9