

# Mer-Krete™ Sound Shield PNS 90 Membrane

## Peel and Stick Sound Control and Crack Isolation Sheet Membrane

### 1. PRODUCT NAME

#### Sound Shield PNS 90 Membrane

Peel and Stick Sound Control and Crack Isolation Sheet Membrane

### 2. MANUFACTURER

Mer-Krete Systems  
501 Van Ness Avenue  
Torrance, CA 90501  
PH (323) 775-2461  
FAX (310) 320-4938  
(800) 851-6303  
www.merkrete.com

### 3. PRODUCT DESCRIPTION

#### BASIC USE

**Sound Shield PNS 90** consists of a 90-mil thick rubberized asphalt membrane. A heavy film is laminated on the face of the sheet and a siliconized, removable release sheet on the adhesive side. The system includes a specialty formulated **PrepSeal PNS primer**. The factory controlled thickness assures uniform thickness on the job.

#### USES

**Mer-Krete Sound Shield PNS 90** can be used under thin set mortar or mortar beds for ceramic tile and natural stone for floors in interior and exterior applications. It is recommended for use over properly prepared masonry, concrete, cement backer board, and existing ceramic tile. In interior dry areas, it is suitable for gypsum board, oriented strand board and plywood substrates.

**Sound Shield PNS 90** is suitable for both residential and commercial construction.

#### ADVANTAGES

Easy to Install  
Interior or exterior  
Crack and joint application up 3/8"  
Tile or stone may be installed immediately.

#### SUITABLE SUBSTRATES

Concrete	Cement Mortar Beds
Ceramic Tile and Stone	Brick Masonry
Cement Backer Board**	Cement Terrazzo
Exterior Grade Plywood*	Oriented Stand Board*

\*Interior Use Only

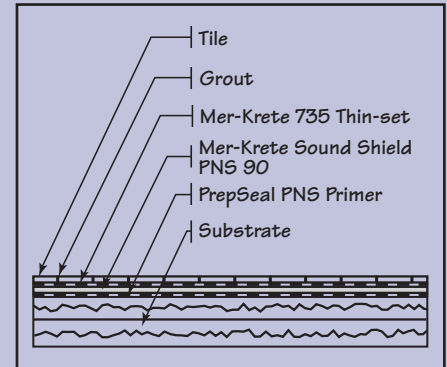
\*\* Consult cement backer board manufacturer for installation recommendations and to verify acceptability for exterior use.

#### LIMITATIONS

Do not use **Sound Shield PNS 90** below 90°F (4°C) or above 95°F (35°C). Use caution; do not allow **PrepSeal PNS primer** to freeze. Not recommended in areas where membrane will be subject to continuous exposure to sunlight. Do not apply primer or membrane to frozen concrete or damp, frosty or contaminated surface. Optimum results are obtained when membrane is installed at temperatures over 90 deg. F and below 100 deg. F. Not recommended as a pond or tank liner. If waterproofing is required; use **Mer-Krete's Hydro-Guard** membrane. Impervious tile (less than 0.5% absorption) may require a 48-hour cure time prior to grouting of tile. The mortar will be sandwiched between to non-absorptive materials and will require additional cure time. Cooler weather will also increase the cure time of the mortar. Not recommended for use over sealants containing coal tar. In the event of existing bitumen modified materials, consult the Mer-Krete technical representative. Not for use over expansion or movement joints and out of plane movement cracks. Not recommended for use on concrete floors when hydrostatic pressure is present. Perimeter expansion of 1/4" minimum must be maintained for warranty.

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#### PHYSICAL & TECHNICAL DATA:

Working Properties (70°F (21°C))

<b>Total thickness</b>	90 Mil
<b>Fabric Thickness</b>	6 Mil
<b>Elongation ASTM D882</b>	350% Min
<b>Tensile MD ASTM D882</b>	1270 psi
<b>Pliability ASTM D146</b>	Pass-25
<b>Adhesion to plywood ASTM 1790</b>	8 lb/in
<b>Adhesion to primed concrete ASTM D903</b>	10 lb/in
<b>Robinson test ASTM C627</b>	Heavy Duty
<b>Impact Isolation ASTM E492-89</b>	68
<b>FIIC</b>	49-54
<b>Sound Transmission ASTM E492-90</b>	72
<b>Packaging 3' x 33.3" 100 Sq. Ft./roll</b>	
	20 rolls per pallet
<b>PrepSeal PNS Primer</b>	
6/1 gal. per case	45 cases per pallet

#### TECHNICAL ASSISTANCE:

Specification assistance is highly recommended prior to a proposed installation. Contact any Mer-Krete technical representative for recommendations over existing substrates or problem areas.



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### 4. TECHNICAL DATA

#### APPLICABLE STANDARDS

**Mer-Krete's Sound Shield PNS 90** meets or exceeds industry requirements ANSI A118.12 for Heavy Duty rating.

#### Sound Shield PNS 90

IIC 68 (Tested on an 8" concrete slab with suspended gypsum board ceiling, one layer 5/8": IIC rating 8" concrete slab no ceiling FIIC 49-54, depending on concrete type. STC rating 72)  
ASTM Standards E90-02, E989-89 and E492-90

### 5. INSTALLATION

#### SURFACE PREPARATION

All surfaces must be between 90°F (4°C) to 95°F (35°C) and structurally sound (deflection not to exceed 1/360 of the span), dry clean and free from oil, grease, wax, paint, old adhesives, sealers and curing compounds. Any contaminants which inhibit proper bond must be removed. Substrate preparation should be completed following ANSI A108 AN-2 "General Requirements for Sub-surfaces". All substrates should be plumb and true, surface deviation should not exceed 1/4" in 10'. Patching, leveling or areas requiring a mortar bed should be prepared using Mer-Krete's Underlayments. Movement (Expansion) joints should be provided to comply with TCA method EJ 171.

#### Cement Substrates

All concrete substrates should be cured a minimum of 28 days. Smooth steel troweled floors should be roughed up using mechanical chipping, scraping or shot blasting. Dampen porous or dry concrete previous to installation of tile. Do not leave puddles or standing water.

#### Cement Backer Board

Follow cement board manufacturer's instructions.

#### Plywood and OSB Substrates

Maximum joist spacing should be 16" on center. Plywood should be exterior grade only. Maintain a gap of 3/16" between plywood underlayment sheets edges and all that abut walls, columns, posts and adjacent sheets. All plywood installations should be interior areas only and protected from exposure to moisture.

Stir **PrepSeal PNS primer** thoroughly. Apply by spray or with a long nap roller at 250-300 sf. per gallon. Allow a minimum of one hour to dry.

#### APPLICATION

Apply sheets horizontally over primed surfaces. End seams shall be butt jointed. For a wrinkle-free application, snap a chalk line for a starting point. Pull 2"-3" of release paper and place adhesive side of membrane along chalk line. As the roll is dispensed, simultaneously roll along the chalk line. Immediately after installation, roll the top of the membrane with a carpet roller.

#### REPAIRS

Following application, inspect all membrane for tears, punctures, fishmouths, air bubbles or voids due to misalignment at seams. Remove damaged membrane. Prime exposed concrete and allow bonding agent to dry. Apply a new section of the sheet membrane to primed surface, extending into adhered membrane 6" on all sides. Firmly press repair section to ensure a good seal.

#### CERAMIC OR STONE TILE APPLICATION

Ceramic or stone tile can be installed immediately after the application of the Sound Shield PNS 40 membrane. Mer-Krete recommends a quality latex Portland cement thin set like Mer-Krete Systems: 705, 710, 7d10, 720, 750, and 801 mortars. Follow the directions on thin set container for proper application.

#### PROTECTION / SAFETY

**PrepSeal PNS primer** contains latex and may cause skin injury. Avoid contact with skin where possible. Wash exposed skin areas promptly with water. If primer gets in the eyes, rinse immediately and repeat rinsing for at least 15 minutes. Get prompt medical attention. KEEP OUT OF REACH OF CHILDREN.

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### 6. AVAILABILITY

Mer-Krete Sound Shield PNS 90 is available at leading tile houses and construction distributors. Contact Mer-Krete for the name of the nearest dealer.

### 7. WARRANTY

5 year, 10 year and Limited Lifetime warranties are available. Contact Mer-Krete technical department for specific warranty information. Mer-Krete Systems warrants that this product meets applicable ANSI standards in force at the time of manufacture.

### 8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

### 9. TECHNICAL SERVICES

Mer-Krete Systems maintains technical field representatives available throughout the country. Call Toll Free (800) 851-6303 for the nearest representative.

### 10. FILING SYSTEMS

Mer-Krete Architectural Product Catalog and CD Rom.  
[www.merkrete.com](http://www.merkrete.com)

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