

Mer-Krete™ Sound Shield PNS 40 Membrane

Peel and Stick Sound Control and Crack Isolation Sheet Membrane

1. PRODUCT NAME

Sound Shield PNS 40 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 40 consists of a 40-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 40 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 40 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.

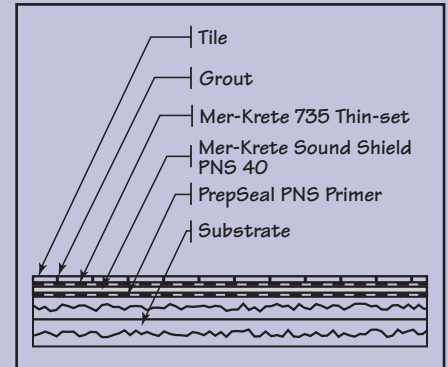
LIMITATIONS

Do not use **Sound Shield PNS 40** below 40°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 40 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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For the latest and most current product information, make sure to visit our website at: www.merkrete.com



PHYSICAL & TECHNICAL DATA:

IIC 54 (Tested on an 8" concrete slab with an acoustical ceiling.) **STC 64**

ASTM Standards E90-02, E989-89 and E492-90

Working Properties (70°F (21°C))

Total Thickness 40 Mil

Fabric Thickness 6 Mil

Elongation ASTM D882 350% Min

Tensile MD ASTM D882 1270 psi

Pliability ASTM D146 Pass-25

Adhesion to plywood ASTM 1790 8 lb/in

Adhesion to primed concrete ASTM D903

10 lb/in

Robinson Test ASTM C627 Heavy Duty

Impact Isolation ASTM E492-89 54

Sound Transmission ASTM E492-90 64

Packaging 3' x 65', 195 Sq. Ft./roll

20 rolls per pallet

PrepSeal PNS Primer

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 40 meets or exceeds industry requirements ANSI A118.12

5. INSTALLATION

SURFACE PREPARATION

All surfaces must be between 40°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 contaminates 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.**

6. AVAILABILITY

Mer-Krete Sound Shield PNS 40 is available at leading tile houses and construction distributors. Contact Mer-Krete for the name of the nearest dealer.

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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

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