

FORPAC®

RC-12

1 of 2

1. PRODUCT NAME

RC-12

2. MANUFACTURER

FORPAC® Products, Inc.
1603 Grove Ave.
Haines City, FL 33844
Telephone: 863-204-8020
Fax: 863-937-9624
Internet: www.forpacproducts.com

3. PRODUCT DESCRIPTION

FORPAC® RC-12 is an advanced composite sound control underlayment utilizing a combination of natural and engineered products to achieve superior IIC (Impact Insulation Class) and STC (Sound Transmission Class) sound reduction ratings. The product is also easy to install using a direct bond method, and is compatible with a variety of substrates and adhesives (see installation instructions for specific information). RC-12 is suitable for use in both tile and wood installations.

- Blended rubber & cork composite; superior bond strength to 100% rubber products.
- Suitable for tile and wood installations
- Green product; qualifies for LEED® points
- Easy to install in the direct bond method

Packaging:

RC-12, 102 lbs, (1) roll, 4' x 15' = 60 sq. ft. /roll.
(16) rolls per pallet

4. TECHNICAL DATA

In addition to the sound benefits, the product has been engineered and produced in a manner that meets several criteria supporting green / environmental building requirements. Using RC products will assist a builder in qualifying for LEED®

Green Building Rating System in the following areas:

- MR 4.1 5% Recycled Content of total building materials (post consumer + 1/2 of post industrial)
- MR 4.2 10% Recycled Content of total building materials (post consumer +1/2 of post industrial)
(RC products are approximately 80% post consumer and 10% post industrial recycled content by weight)
- MR6 Specifying rapidly renewable building materials for 5% of total building materials
(RC products are approximately 10% rapidly renewing content by weight)
- EQ 4.1 Low Emitting Materials, Adhesives, and Sealants (Adhesives Specified meet SCAQMD Rule 1168)

Membrane Composition *A material blend consisting primarily of recycled rubber with naturally renewable granulated cork particles.*

Membrane Thickness *½" (0.50 inches) thick*

Sound Reduction Performance Data

STC (Sound Transmission Class) as tested to ASTM E90-04 / E413-04
IIC (Impact Insulation Class) as test to ASTM E492-04 / E989-06
Delta IIC (Increase in Impact Insulation Class) ASTM E2179-03

Floor Ceiling Assembly - Test Specimen	Sound Rating IIC	Sound Rating STC	Sound Rating ΔIIC
6" concrete slab, no ceiling assembly / Direct bond to Quarry Tile	50	53	21

5. INSTALLATION

FORPAC® RC membranes, when properly installed in accordance with the following installation guidelines, will provide years of protection for finish flooring installations. In addition to these instructions, installers shall also refer to the most current edition of the following publications: American National Standards Institute (ANSI) publications, Tile Council of America (TCA) Handbook for Ceramic Tile Installations, The Marble Institute of America (MIA) Dimension Stone Design Manual, NWFA (National Wood Flooring Association). Manufacturer's instructions of selected setting materials, substrates, sub-floors, or other manufacturers being used in



FORPAC® RC-12

2 of 2

the total, or any part of, an installed flooring system with FORPAC® consult your selected manufacturer of these above mentioned components to ensure selected products are compatible with FORPAC® RC membranes.

Site Conditions The installation site must be acclimated, with the HVAC system in operation. The floor and room temperature, as well as the underlayment, flooring materials and adhesives must be maintained at 65–85°F. The relative humidity also shall be below 60% for 48 hours prior to, during and after the installation.

Surface Preparation of selected substrates:

Concrete shall be in place a minimum of 28 days. Concrete shall be installed in compliance with industry standards and concrete manufacturer's instructions. The surface shall have a smooth finish and be free from voids, sharp protrusions, and loose aggregate. Substrate temperature should be between 50°F and 75°F. Concrete shall be structurally sound, dry, clean, and free of dirt, oils, grease, paint, concrete sealers or curing compounds, cement laitance, and other similar bond inhibiting materials. Rough or uneven surfaces should be made smooth with a Latex Portland cement underlayment to provide a smooth and acceptable finish. Do not level with asphalt based products. Concrete should be tested for moisture vapor transmission by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings indicate a reading greater than 5# per 1000 sq. ft/24 hours. Plywood must be a minimum of two (2) layers 5/8" exterior grade plywood. Plywood shall be securely fastened in accordance with industry standards as listed. Maintain 1/8" gap between plywood sheets and all surfaces they abut. Joints in the top layer should be offset from the joints on the bottom layer. It is the responsibility of the installer to verify the deflection of the floor structure and sub-floor does not exceed L/360 of the span under combined live or dead loads.

Perimeter Isolation Barrier (PIB)

Install PIB vertically around the perimeter of the entire floor including any openings or protrusions such as electrical boxes, heating ducts, cold air returns, columns or pipes in the sub-floor installation. The perimeter isolation strip MUST be installed prior to FORPAC® RC products being installed. Remove the release liner from the self-adhesive backing and place flat against the wall, flush to the floor. After positioning, press the isolation barrier firmly into place at all wall and vertical partitions surrounding the perimeter. Never mechanically fasten the isolation barrier, this will severely diminish the acoustical performance of the entire sound rated floor system. After the finished floor is installed, barrier may be trimmed flush with the surface of the finished floor.

Adhesive Application

Use the appropriate notched trowel to ensure 100% coverage of the backing of the FORPAC® RC underlayment being used. Install the RC underlayment into the adhesive while the adhesive is still fresh. The FORPAC® RC products, like other non-porous backed material and stiffer materials with an inherent memory, may require the installer to allow 10-15 minutes of drying time (dependent on temperature and moisture conditions) for the spread adhesive to tack up before setting the underlayment. Proper adhesive transfer to the backing should be checked periodically.

Application for direct bonded tile flooring

Cut the RC material to the desired length and position the material in the space to be covered. Butt the RC material against the perimeter isolation barrier already installed at the floor/wall junction. Pull the loose laid material back at least half the length of the cut material. Gently place rolled back section into the bed of adhesive and imbed it into the adhesive. Repeat the process for the other half of the sheet, making sure there is 100% adhesive coverage on the sub-floor. Use a 75 # roller in both directions to remove any air pockets.

Application for direct bonded wood flooring

*****The same urethane or MS-Type adhesive MUST BE USED TOP AND BOTTOM OF MEMBRANE to create equal grab on the membrane*****

Cut the RC material to the desired length and position the material in the space to be covered. Butt the RC material against the perimeter isolation barrier already installed at the floor/wall junction. Pull the loose laid material back at least half the length of the cut material. Gently place rolled back section into the bed of adhesive and imbed it into the adhesive. Repeat the process for the other half of the sheet, making sure there is 100% adhesive coverage on the sub-floor. Use a 75 # roller in both directions to remove any air pockets. Follow NWFA (National Wood Flooring Association) recommendations.

Setting Materials

ONLY FORPAC® APPROVED MORTARS AND ADHESIVES ARE TO BE USED WITH FORPAC® RC MEMBRANES. Contact FORPAC® for mortar / adhesive suitability and approval for use with FORPAC® RC membranes PRIOR TO INSTALLATION. NON-APPROVED MORTARS AND ADHESIVES USED TO INSTALL FINISH SURFACES OVER FORPAC® RC MEMBRANES WILL VOID WARRANTY. Use appropriate notched trowel for application of setting materials in compliance with ANSI, TCNA, MIA, NWFA, and these installation instructions.

Finish Surface Installation

Apply finish flooring in compliance with the finish manufacturer's instructions, mortar / adhesive manufacturer's instructions, and the publications listed in paragraph 1 of these instructions. Do not install any defective, damaged, or any finish flooring surface not for its intended use. The installation of this product does not eliminate the need for movement joints, including perimeter joints with a tiled surface. Perimeter expansion of ¼" must be maintained at all times. Consult the TCNA handbook for other movement joint applications. The product is not for use over expansion joints, or structural (out-of-plane) movement cracks. 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 may require additional curing time.

CAUTION: EYE AND SKIN IRRITANT. Wear protective clothing when applying product. Consult Safety Data Sheet for handling and disposal. Keep this product out of the reach of children and pets.

6. AVAILABILITY

FORPAC® Products, Inc. are available nationwide.

To locate FORPAC products in your area, please contact:

Telephone:: 863-204-8020

Website: www.forpacproducts.com

7. WARRANTY

Contact FORPAC® Technical Services for specific warranty information. FORPAC® Products 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

Technical assistance

Information is available by calling the Technical Support

Telephone:: 863-204-8020

Fax: 863-937-9624

Technical and safety literature

To acquire technical and safety literature, please visit our website www.forpacproducts.com

10. FILING SYSTEM

Division 9