

## 1. PRODUCT NAME

RC4G (RCU Adhesive)

## 2. MANUFACTURER

Proflex Products, Inc.  
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Brandon, Florida 33510  
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## 3. PRODUCT DESCRIPTION

PROFLEX® RCU-Adhesive is a high-tack aggressive bonding adhesive to be used in conjunction with Proflex® RCU/RR underlayments. RCU-Adhesive may be used to bond RCU/RR underlayment to dry, fully cured, and dimensionally stable concrete, exterior or marine grade plywood. Contact technical support for additional approved substrates.

### Advantages

- Easy and fast to install with standard tools.

### Suitable Substrates

- Concrete (Poured, Prestressed, Precast)
- Cured (Mortar Beds, Self-Leveling Compounds, Primed Gypsum concrete)
- Concrete Backerboards
- Wood (Exterior Grade Plywood, Hardwood, Tongue and Groove, OSB)

### Packaging and Coverages

4 gallon container, 48 containers per pallet.

Actual coverage will vary depending on substrate and application, for estimation purposes, a 1/8" x 1/8" x 1/8" U-notch trowel will yield 90 sq.ft./US-gallon (Metric equivalent will be a 3" x 3" x 3" U-notch trowel will yield 220m<sup>2</sup> / L).

**(Note: Times and performances are based on 76°F (23°C) and 50%rH)**

**Open Time:** 10-45 mins. Drying Time 24 hours (cure time)

**Shelf Life:** 12 months when stored in unopened container

## 4. TECHNICAL DATA

RCU Adhesive (RC4G) should not be used in applications involving direct glue down hardwood over PROFLEX® membranes. When installing direct glue down wood over the PROFLEX® membranes use the same urethane adhesive or MS-Type adhesive top and bottom of the membrane. PROFLEX® recommends ProBond, PWA 200, PWA 400, PWA 500, PWA 600, PWA 700 for this application.

## 5. INSTALLATION

**(Read fully before using product.)**

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 North America (TCNA) Handbook for Ceramic Tile Installations, The Marble Institute of America (MIA) Dimension Stone Design Manual. Manufacturer's instructions of selected setting materials, substrates, sub-floors, or other manufacturers being used in the total, or any part of, an installed flooring system with PROFLEX®, consult your selected manufacturer of these above mentioned components to ensure selected products are compatible with PROFLEX® RCU membranes. Visit [www.proflex.us](http://www.proflex.us) for more information.

### 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 temperatures should be between 50°F and 75°F. Concrete shall be structurally sound, dry, clean, and free of dirt, oils,

grease, loose peeling 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.

Moisture testing should be performed by ASTM F1869 Calcium Chloride Tests with moisture levels not to exceed Five (5) pounds per Twenty-Four (24) hours per one thousand (1000) square feet or ASTM F2170 In Situ Relative Humidity Test with readings, not to exceed eighty (80) percent on existing slabs. New Construction Projects, or Green slabs can have a Moisture Vapor Emission Rate of up to Eight (8) pounds per Twenty-Four (24) hours per one thousand (1000) square feet or 85% when tested in accordance with ASTM F-2170. The maximum pH levels should not exceed a reading of 9.

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 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.

### **Adhesive Application**

Use the appropriate notched trowel to ensure 100% coverage of the backing of the PROFLEX® RCU underlayment being used. Install the RCU underlayment into the adhesive while the adhesive is still fresh. The PROFLEX® RCU 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 ceramic tile flooring**

Cut the RCU material to the desired length and position the material in the space to be covered. Butt the RCU 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. Using a properly sized trowel to apply PROFLEX® RCU-Adhesive. 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.

### **Clean-Up**

Remove wet adhesive immediately with a damp cloth. Use Mineral Spirits to remove dried adhesive.

**CAUTION:** Mineral Spirits are flammable. Read and follow all precautions on container label.

Do not allow adhesive to remain uncovered after the initial drying period as a loss of adhesion strength will occur. Do not spread more adhesive than can be worked within the 45 minute time frame.

### **Setting Materials**

**ONLY PROFLEX® APPROVED MORTARS AND ADHESIVES ARE TO BE USED WITH PROFLEX® RCU/RR UNDERLAYMENTS.** Contact PROFLEX® for mortar / adhesive suitability and approval for use with PROFLEX® RCU membranes. **PRIOR TO INSTALLATION. NON-APPROVED MORTARS AND ADHESIVES USED TO INSTALL FINISH SURFACES OVER PROFLEX® RCU/RR UNDERLAYMENTS WILL VOID WARRANTY.** Use appropriate notched trowel for application of setting materials in compliance with ANSI, TCNA, MIA, NWFA, and these installation instructions. Visit [www.proflex.us](http://www.proflex.us) for more information.

### **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 1/4" 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.

## **6. AVAILABILITY**

PROFLEX® Products are available nationwide.

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

Phone: 877-577-6353



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Website: [www.proflex.us](http://www.proflex.us)

## 7. WARRANTY

5,10, 15 year and Limited Lifetime warranties are available. Contact PROFLEX® Technical Support for specific warranty information. PROFLEX® 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

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](http://www.proflex.us)

## 10. FILING SYSTEM

Division 9