1. PRODUCT NAME
Redi Poxy™ Epoxy Adhesive

2. MANUFACTURER
Tile Redi USA, LLC
4450 NW 128th Avenue, Suite 101
Coral Springs FL 33065
Telephone: 954-323-0125
Toll Free: 800-232-6166
Fax: 954-344-8064
Internet: www.tileredi.com

3. PRODUCT DESCRIPTION
Redi Poxy™ Epoxy Adhesive is a chemical resistant, epoxy adhesive that will bond to most sound, clean surfaces. Adhesive spreads easily and cleans with water while fresh. Redi Poxy™ Epoxy Adhesive is a factory-proportioned kit consisting of epoxy resin, hardener and chemical resistant silica filler. Redi Poxy™ Epoxy Adhesive can be used in interior and exterior (see limitations) walls and floors, wet and dry areas.

Uses
For heavy duty commercial chemical resistant installations in food processing areas, commercial kitchens, restaurants, etc. Also use Redi Poxy™ Epoxy Adhesive to install all types of ceramic tile, marble and natural stone over post-tensioned and precast floor systems. Also recommended for rubber flooring and wood block floors, the installation of green marble, white marble, and resin backed tiles and stones agglomerate marbles that have a tendency to stain, darken or warp when installed with water-based installation materials.

Note: The Tile Council of North America recommends the use of epoxy adhesives and grouts for thin-set installations on suspended concrete slabs and for floors and walls when chemical resistance is required.

Advantages
- Water cleanable.
- No flammable solvents are required to clean tools or finished work.
- Ideal for installing moisture sensitive marble and agglomerate tiles.
- Ideal for the installation of resin backed tile, mosaics, stone, and agglomerates.
- Non-staining on white and light-colored marble.
- High bond strength.
- Maximum chemical resistance.
Conforms to EN 12004 and ISO 13007 with a R2 Classification

Suitable Substrates
- Concrete
- Ceramic tile and stones
- Exterior glue plywood*
- Concrete masonry
- Brick masonry
- Non-water soluble cut-back adhesive*
- Vinyl or other resilient tile*
- Cement mortar beds
- Gypsum wallboard*
- Cement plaster
- Cement terrazzo
- Plastic laminate*
- Cement backer board**
- Steel

*Interior application only.
** Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use.

Packaging
Redi Poxy™ Epoxy Adhesive is a factory proportioned kit with resin (part A), hardener (part B) and filler powder (part C), packed in a plastic bag (part A and B) and carton (part C)

Unit Sizes
#1 Unit Redi Poxy™ 6
Weight 6 lb. (2.72 kg) volume: (1.7 l)

#2 Unit Redi Poxy™ 9
Weight 9 lb. (4.08 kg) volume: (2.5 l)

#3 Unit Redi Poxy™ 12
Weight 12.6 lb. (5.71 kg) volume: (3.4 l)
**Approximate Coverage**

<table>
<thead>
<tr>
<th>#1 Unit - 8 lb</th>
<th>#2 Unit - 9 lb</th>
<th>#3 Unit - 12.6 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>With 1/16&quot; (1.5 mm) notch towel</td>
<td>45-50 sq. ft./4.2-4.5 m²</td>
<td>65-75 sq. ft./6.0-6.9 m²</td>
</tr>
<tr>
<td>With 3/32&quot; (4 mm) notch towel</td>
<td>17-20 sq. ft./1.6-1.9 m²</td>
<td>26-30 sq. ft./2.4-2.8 m²</td>
</tr>
<tr>
<td>With 1/8&quot; x 1/16&quot; (0.3 x 3 mm) square notch towel</td>
<td>22-27 sq. ft./2.0-2.5 m²</td>
<td>33-41 sq. ft./3.1-3.6 m²</td>
</tr>
<tr>
<td>With 1/4&quot; x 1/4&quot; (6 x 6 mm) square notch towel</td>
<td>7-9 sq. ft./0.7-0.8 m²</td>
<td>11-13 sq. ft./1.0-1.2 m²</td>
</tr>
</tbody>
</table>

**Shelf Life**

Factory sealed containers of this product are guaranteed to be of first quality for two (2) years. *High humidity will reduce the shelf life of bagged product.*

**Limitations**

- Not for use as a grout.
- Do not install when surface temperature is below 60°F (16°C) or above 90°F (32°C).
- Adhesives for ceramic tile and stone are not replacements for waterproofing membranes.
- Consult manufacturer regarding limitations for exterior installations.
- When installing ceramic tile and stone, verify that substrate deflection does not exceed the maximum allowable industry standard of L360 for ceramic tile and L480 for stone under combined live and dead loads. Some marbles and other stones have low flexural strength and may not be suitable for installation over wood floors.

**Cautions**

Consult MSDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Redi-Poxy™ Epoxy Adhesive Part A is corrosive until fully cured. Damage to eyes or skin are possible.
- Wait 14 days after the final grouting period before filling water features with water at 70°F (21°C).
- Contains silica sand. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.
- Allow a minimum 14 day cure prior to filling water features with water at 70°F (21°C).

**4. TECHNICAL DATA**

**VOC/LEED Product Information**

Total VOC Content pounds/gallon (grams/liter) of product in unused form is 0.0067 lb/gal (0.80 g/l).

**Applicable Standards**

ANSI A118.3, EN 12004 and ISO 13007

**Performance Properties**

<table>
<thead>
<tr>
<th>Test</th>
<th>Method</th>
<th>Results</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarry Tile Bond Strength</td>
<td>ANSI A118.3-5.5</td>
<td>&gt;1250 psi (8.6 MPa)</td>
<td>&gt;1000 psi (6.9 MPa)</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ANSI A118.3-5.7</td>
<td>1400-1700 psi (9.6-11.7 MPa)</td>
<td>&gt;1000 psi (6.9 MPa)</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ANSI A118.3-5.8</td>
<td>5000-5400 psi (34.4-37.2 MPa)</td>
<td>&gt;3500 psi (24.1 MPa)</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>ANSI A118.3-5.9</td>
<td>600-720 psi (4.1-4.8 MPa)</td>
<td>&gt;500 psi (3.4 MPa)</td>
</tr>
</tbody>
</table>

**Shtangge**

ANSI A118.3-5.3

0-0.1%  <0.2%

**Sag Resistance**

ANSI A118.3-5.4

Pass  No shape change

**Water Cleanability**

ANSI A118.3-5.1

>60 minutes  >60 minutes

**Initial Shear Adhesion**

EN12003.7.3  ≥2 N/mm²  ≥2 N/mm²

**Shear Adhesion Strength after Water Immersion**

EN12003.7.4  ≥2 N/mm²  ≥2 N/mm²

**Shear Adhesion After Thermal Shock**

EN12003.7.5  ≥2 N/mm²  ≥2 N/mm²

**Open Time Tensile Adhesion Strength**

EN1346  >0,5 N/mm² in not less than 20 minutes  >0.5 N/mm² in not less than 20 minutes

Data from TCA05-05, TCA 095-90, and 500/7730/05.

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

Classification in Compliance with EN 12004

Redi-Poxy™ Epoxy Adhesive is an improved reaction resin adhesive classified as R2.

Redi-Poxy™ Epoxy Adhesive is CE marked, as declared in report no. 500/776/DS issued by Materialprüfungs- und Versuchsanstalt Neuwied Forschungsinstitut für Vulkanische Baustoffe GmbH (Neuwied, Germany)

**Working Properties (70°F [21°C])**

<table>
<thead>
<tr>
<th>Test</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life</td>
<td>45 minutes</td>
</tr>
<tr>
<td>Time to Grout</td>
<td>12 hours</td>
</tr>
<tr>
<td>Time to Light Traffic</td>
<td>12 hours</td>
</tr>
<tr>
<td>Time to Heavy Traffic</td>
<td>24 hours</td>
</tr>
<tr>
<td>Minimum Application Layer</td>
<td>1/6 in (3 mm)</td>
</tr>
<tr>
<td>Maximum Application Layer</td>
<td>3/8 in (9 mm)</td>
</tr>
<tr>
<td>Wet Density</td>
<td>99 lbs/ft³ (1590 kg/m³)</td>
</tr>
</tbody>
</table>

**Chemical Resistance Chart**

Redi-Poxy™ Epoxy Adhesive

<table>
<thead>
<tr>
<th>REAGENT TYPE at (70°F [21°C])</th>
<th>Redi-Poxy™ Adhesive EXPOSURE LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Intermitent</td>
</tr>
<tr>
<td>Citric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Sulfuric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Hydrochloric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Lactic Acid 5%</td>
<td>R</td>
</tr>
<tr>
<td>Vinegar</td>
<td>R</td>
</tr>
<tr>
<td>Acetic Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Nitric Acid 10%</td>
<td>R</td>
</tr>
<tr>
<td>Sodium Hydroxide 10%</td>
<td>R</td>
</tr>
<tr>
<td>Sodium Chloride 10%</td>
<td>R</td>
</tr>
<tr>
<td>Dedicated Gessers</td>
<td>R</td>
</tr>
<tr>
<td>Ammonium Hydroxide</td>
<td>R</td>
</tr>
<tr>
<td>Sugars</td>
<td>R</td>
</tr>
<tr>
<td>Gasoline</td>
<td>R</td>
</tr>
<tr>
<td>Cooking Oils</td>
<td>R</td>
</tr>
<tr>
<td>Turpentine</td>
<td>R</td>
</tr>
<tr>
<td>Mineral Spirits</td>
<td>R</td>
</tr>
<tr>
<td>Toluene</td>
<td>NR</td>
</tr>
<tr>
<td>Xylol</td>
<td>NR</td>
</tr>
</tbody>
</table>

R= Recommended  NR= Not Recommended


NOTES TO SPECIFIER: Use the constant exposure recommendations for intermittent exposure to reagents at temperatures above 90°F (32°C).

**5. INSTALLATION**

**Surface Preparation**

All surfaces should be between 60°F (16°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with a Portland cement underlayment to provide a wood float (or better) finish. Installation
may be made on a damp surface. New concrete slabs must be
damp cured and 28 days old prior to application. All slabs must be
plumb and true to within 1/4" (6 mm) in 10 ft (3 m). Expansion
joints shall be provided through the tile work from all construction
or expansion joints in the substrate. Follow ANSI specification
A108.01-3.7 “Requirements for Movement Joints: Preparations
by Other Trades” or TCNA detail EU-171 “Movement Joints—
Vertical & Horizontal”. Do not cover expansion joints with mortar.

Note: Temperature will affect working properties of Redi Poxy™
Adhesive. Warm temperatures will speed curing and shorten
working time. Cool temperatures will slow curing and require
longer time to traffic. Store Redi Poxy™ Adhesive at 70°F (21°C)
for 24 hours prior to use.

1. Installer must verify that deflection under all live, dead
and impact loads of interior plywood floors does not exceed
industry standards of L/360 for ceramic tile and brick or L/480
for stone installations where L=span length.

2. Minimum construction for interior plywood floors.

SUBFLOOR: 5/8" (15 mm) thick exterior glue plywood, either
plain with all sheet edges blocked or tongue and groove, over
bridged joints spaced 16" (400 mm) o.c. maximum; fasten
plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm)
o.c. along intermediate supports with 8d ring-shank, coated or
hot dip galvanized nails (or screws); allow 1/8" (3 mm) between
sheet ends and 1/4" (6 mm) between sheets edges; all sheet
ends must be supported by a framing member; glue sheets to
joints with construction adhesive.

UNDERLAYMENT: 5/8" (15 mm) thick exterior glue plywood fast-
ened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in
the panel field (both directions) with 8d ring-shank, coated or hot
dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm)
between sheets and 1/4" (6 mm) between sheet edges and any
abutting surfaces; offset underlayment joints from joints in subfloor
and stagger joints between sheet ends; glue underlayment to
subfloor with construction adhesive.

Mixing
Pour Redi Poxy™ Adhesive Part A and Part B into a clean mixing
pail and mix thoroughly. Add Redi Poxy™ Part C Filler Powder
and mix to a smooth, trowelable consistency. Mortar is ready for
use immediately after mixing.

Application
Apply mortar to the substrate with the flat side of the trowel, press-
ing firmly to work into surface. Comb on additional mortar with the
notched side.

Note: Use the proper sized notched trowel to ensure full bedding
of the tile. Back butt large tiles > 8" x 8" (>200 mm x 200 mm) to
provide full bedding and firm support. Place tiles into wet, sticky
mortar and beat in using a beatoing block and rubber mallet to
embed tile and adjust level. Check mortar for complete
coverage by periodically removing a tile and inspecting bedding
mortar transfer onto back of tile.

6. AVAILABILITY AND COST
Tile Redi® Products and Redi Poxy™ materials are available.
For Distributor information, call:
Toll Free: 800-232-6156
Telephone: 954-323-0125
For on-line Distributor information, please visit our website at
www.tileredi.com

Cost
Contact a Tile Redi Distributor in your area.

7. WARRANTY
This limited warranty is for a period of one (1) year in accord-
ance with the terms of the Tile Redi Warranty

8. MAINTENANCE
Redi Poxy™ materials require no maintenance 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 Tile Redi® Technical
Support hotline (hours 8:00 AM to 6:00 PM EST)
Toll Free: 800-232-6156
Telephone: 954-323-0125
Fax: 954-344-8064

Technical and Safety Literature
To acquire technical and safety literature, please visit our website
at www.tileredi.com

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