

Product Data Sheet For:

RUBBERTHANE II

Flexible Hybrid Epoxy Membrane

DESCRIPTION:

Rubberthane II is a 100% solid, modified epoxy resin membrane which combines the toughness, adhesion and durability of epoxy chemistry along with the physical property of being flexible. This flexibility is attained without the use of plasticizers or other substances that can separate from the resin polymer through time or degrade due to environmental conditions. The installed thickness ranges from 10-60 mils.

PRODUCT FEATURES:

- ↪ Outstanding bonding and flexibility
- ↪ Will cure at lower temperatures and retain its flexibility
- ↪ Very tough, abrasion resistant
- ↪ Does not contain plasticizers and will not lose its flexibility

TYPICAL USES:

- ↪ Can be used as a waterproofing membrane from 10 to 60 mils
- ↪ Used as a primer at <10 mils
- ↪ Used as a membrane under Plexi-Chemie's epoxy systems, i.e. PlexiQuartz, PlexiChip, and PlexiClad
- ↪ Mechanical room coating system
- ↪ Secondary containment
- ↪ Kitchens
- ↪ Wood floors or other moving flooring surfaces

PACKAGING:

Part A

1-gallon resin
2-gallon resin
10-gallon resin

Part B

0.5 gallon hardener
1-gallon hardener
5-gallon hardener

INSTALLATION GUIDELINES:

Preparation: Surface must be properly prepared and, if required, primed. Consult Plexi-Chemie's Technical Department for full details.

Priming: Self-Priming...No Primer Needed

Mixing: Observe all precautions on MSDS and label when using this product.

1. Premix side A (resin) using a Jiffy mixer until uniform. Mix for 1-minute exercising caution not to whip air into the material.
2. Add Part B (hardener) to the resin and mix with a low speed drill with a Jiffy blade for 1 minute until uniform.

Application: Immediately pour the mixed material onto the substrate using a v-notched squeegee to yield 10-60 mils WFT. Back-roll with a "spiked" or "porcupine" roller to reduce trapped air. Two coats are recommended for pinhole free membrane. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness.

Limitations: This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound and dry.

Cure: Allow to cure overnight at 73°F surface temperature. Material cures slower at lower temperatures. Re-coat in 12 hours at 70°F. Foot traffic 16 hours, full chemical cure in 7 days.

NOTE: Epoxy materials may tend to blush at the surface, especially in humid environments. After surface is primed and before installation of each subsequent coat, surface must be examined for blush (a whitish greasy film and/or low gloss). The blush

must be completely removed prior to recoating using a warm detergent, water, or through solvent wipe.

PHYSICAL PROPERTIES:

| | |
|----------------|---|
| Composition | Two-component, amine-adduct cured hybrid epoxy-urethane |
| Color | Grey/Red/Black |
| Weight/gallon | 8.92 lbs. mixed |
| Solids Content | 100% |
| Mix Ratio | 2A:1B by volume |
| Pot Life | 25 min @ 70°F (1.5 gal kit) |
| Viscosity | 1800 cps, mixed approx. |

PERFORMANCE PROPERTIES:

| | |
|------------------------------------|-----------------------------|
| Tensile Strength (ASTM D-638) | 1,100 psi |
| Elongation (ASTM D-638) | 150% @ 75°F |
| Tear Strength (ASTM D-1938) | 80 lbs. |
| Adhesion To concrete (ASTM D-4541) | 350 psi (concrete fails) |
| Hardness (ASTM D-2240) | 40 (Shore D) |
| Water Absorption (ASTM C-413) | 0.7%% maximum |
| Service Temperature | -40°F to 200°F (atmosphere) |
| Flammability (ASTM D-635) | Self-Extinguishing |
| Impact Resistance (ASTM D-2794) | >160 inch-lbs. |
| Thermal Cycling (ASTM C-884) | No Cracking -6°F to 77°F |

SAFETY:

This product is intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved. Rubberthane II is a two component epoxy system. Part A contains epoxy resins and urethane polymer. Part B contains amine-epoxy adduct. Workers should wear gloves and goggles when mixing or applying product. Clean up with soap and warm water.

CHEMICAL RESISTANCE GUIDE:

| Reagent | Rating |
|-----------------------|--------|
| Acetic Acid-5% | L |
| Acetone | L |
| Bleach | L |
| Citric Acid-5% | R |
| Crude Oil | R |
| Diesel Fuel | L |
| Ethylene Glycol | L |
| Fatty Acids | R |
| Gasoline | L |
| Hydrochloric Acid-10% | R |
| Lactic Acid-5% | R |
| Methyl Ethyl Ketone | L |
| Nitric Acid-1% | R |
| Skydrol | L |
| Sodium Hydroxide-20% | R |
| Sulfuric Acid-20% | R |
| Toluene | L |
| Urea-50% | R |
| Vinegar | L |
| Xylene | L |

R= Recommended for continuous service.

L= Limited recommendation, occasional spills.

NOTE: This chart is intended as an aid in evaluating the performance of these systems in various chemical exposures at 75°F. The data is intended as a guide only. In severe or combination exposures, a sample should be tested under actual or simulated use conditions.

Notice: The technical data contained herein are true and accurate to the best of our knowledge. All products are offered and sold subject to Plexi-Chemie Standard Conditions of Sale. Published technical data and instructions are subject to change without prior notice.

Please be sure the Safety Data Sheet is read and understood before using any Plexi-Chemie product.