



UNDERLAY RS

PROFESSIONAL-GRADE, FAST-SETTING,
POLYMER-MODIFIED PORTLAND CEMENT
MORTAR BED UNDERLAYMENT

- Easy to install by screed or trowel
- Excellent bond to concrete, wood and metal with minimal preparation
- Trowels to a smooth and uniform finish
- Cures in 3 – 4 hours
- Crack resistant and fire retardant
- May be installed from 1/8" to 3"

Consult manufacturer for elevations over 3" thick



Suitable Substrates

- Cement mortar beds
- Ceramic tile and stone¹
- Concrete
- Concrete masonry
- Exterior-grade plywood²

¹ Consult Merkrete for technical assistance

² Requires 2.5 metal lath

1. Product Name

Underlay RS

2. Manufacturer

Parex USA, Inc.

2150 Eastridge Ave, Riverside, CA 92507
866-516-0061 • www.merkrete.com

3. Product Description

Basic Use

Merkrete Underlay RS is a fast-setting, troweled, polymer-modified underlayment providing a uniform, smooth subsurface ready for overlay in 3 – 4 hours depending on climatic conditions. Underlay RS also contains antimicrobials to inhibit the growth of mold and mildew.

Uses

Underlay RS provides an acceptable surface for floor coverings such as vinyl, resilient tile, carpet, stone, ceramic and quarry tile. It is also used to repair concrete surfaces. Underlay RS is ideal for achieving a slope base foundation for drainage in showers or any floor requiring slope.

4. Technical Data

UNDERLAY RS	
Weight	1.2 lb. sq. ft. at 1/8"
Indentation: (MIL-D-3135d)	< 3%
Shear to Concrete	> 550 psi
Compressive Strength 28 day	> 3,500 psi

Packaging

50-lb. bag (22.7-kg); 48 bags per pallet | Color: Gray

Shelf Life

Reference Parex USA Expiration Date of Products Technical Bulletin.

5. Installation

Surface Preparation

All surfaces must be between 40° F (4° C) and 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 contaminants that inhibit proper bond must be removed.



Substrates

Concrete Substrates: Concrete substrate 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 prior to installation.

Note: If the substrate has uneven suction or is questionable, it is recommended that a preparation coat of Merkrete's 626 Primer be applied prior to the installation of Underlay RS. If 626 Primer is used, a slurry (key) coat is not necessary.

Mixing

Slurry (Key) Coat: In a clean container, mix a small amount of Underlay RS and enough water to achieve a thick soup-like consistency.

Dry Pack Floor Mud Bed: In a clean container, add approximately 4 quarts (3.8 liters) of clean potable water. Then add the contents of the 50-lb. (22.7-kg) Underlay RS mortar. Mix by hand until powder is thoroughly moist.

Patching and Thicknesses up to 1/8": In a clean container, add approximately 4 quarts (3.8 liters) of clean potable water. Then add the contents of the 50-lb. (22.7-kg) Underlay RS mortar. Mix thoroughly by hand or with a slow speed mixer to a smooth, thick, trowelable consistency. Do not temper with additional water.

Application

Immediately apply mortar system with a steel trowel using enough pressure to firmly work into the concrete surface. If 626 Primer is used, wait until primer has dried before applying mortar. If a slurry coat is used, immediately apply mortar with a steel trowel using enough pressure to firmly work into the concrete surface. Underlayment can then be installed from the "needed thickness" down to a 1/8" edge. It can be installed over most clean, dry sub-surfaces, and can normally be covered or used within 3 – 4 hours for light foot traffic and 6 – 8 hours for heavy loads. When using over plywood substrates, use 2.5 expanded metal lath.

Cleaning

Water is all that is needed to remove any uncured underlayment from tiles, tools and equipment.

Coverage

50-lb. bag will cover 50 sq. ft. at 1/8" thickness; 25 sq. ft. at 1/4" thickness.

Limitations

Do not use Underlay RS below 40° F (4° C) or above 95° F (35° C). Use caution to not allow mortar to freeze for the first 72 hours. Underlay RS is not intended as a finish surface. When used over 1 1/2" thick, hairline cracks may occur. This will not affect the performance of the product. Underlay RS must not be applied over asphalt sheeting, vinyl covered wall board, Masonite®, cement asbestos board, metal, glass, plastic, gypsum mortar beds or other unstable substrates. Improperly cured or wet plywood, particle board or strip wood are not suitable substrates.

6. Availability

Merkrete Underlay RS is available at leading tile houses and construction distributors. Contact Merkrete or visit our website for the name of the nearest dealer at www.merkrete.com.

7. Warranty

5-year, 10-year and Limited Lifetime warranties are available. Contact Merkrete Technical Services or visit our website for specific warranty information. Merkrete 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

Merkrete Systems maintains technical field representatives available throughout the country. Call Technical Services at 800-226-2424 for the nearest representative.

10. Literature

For the most up-to-date technical information (details, submittals, SDS or data sheets), refer to our websites www.parexusa.com or www.merkrete.com.



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