

MERKRETE

Underlay RS

Professional Grade Fast-Setting Polymer Modified Portland Cement Mortar Bed Underlayment

2. Manufacturer

Parex USA, Inc.
4125 E. La Palma Ave, Suite 250
Anaheim, CA 92807
866-516-0061
www.merkrete.com

3. Product Description

BASIC USE: Merkrete Underlay RS is a troweled polymer modified underlayment formulated to provide a uniform, smooth sub surface suitable to receive 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 such as showers, or any floor requiring slope.

Advantages

- Easy to install by screed or trowel
- Excellent bond to concrete, wood and metal with minimal preparation
- Trowels to a smooth and uniform finish
- Dries in 6 – 8 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

4. Technical Data

	Underlay RS
Weight	1.2 lb. sf 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) to 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 contaminates which inhibit proper bond must be removed.



Underlay RS

Professional Grade Fast-Setting Polymer
Modified Portland Cement Mortar Bed Underlayment

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 insulation of Underlay C. 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 High Build to 1/8" Thickness: 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, with 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, with 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.

Limitations: Do not use Underlay RS below 40° F (4° C) or above 95° F (35° C). Use caution; do 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.

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

Coverage: 50 lb. bag will cover 50 sf at 1/8" thickness, 25 sf at 1/4" thickness.

Underlay RS

Professional Grade Fast-Setting Polymer
Modified Portland Cement Mortar Bed Underlayment

6. Availability

Merkrete Underlay RS is available at leading tile houses and construction distributors. Contact Merkrete or visit our web site 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 web site 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. Filing Systems

Merkrete architectural product information available either in catalog form, or electronically on our website at www.merkrete.com.

Parex USA, Inc.
4125 E. La Palma Ave., Suite 250
Anaheim, CA 92807
(866) 516-0061 Tech Support: (800) 226-2424

Facilities
French Camp, CA
North Hollywood, CA
Riverside, CA
San Diego, CA

Colorado Springs, CO
Haines City, FL
Duluth, GA
Redan, GA

Albuquerque, NM
Allentown, PA
San Antonio, TX



EIMA

SMA



PAREX USA
SUSTAINABILITY

EIFS SOLUTIONS • STUCCO ASSEMBLIES • TILE AND STONE SYSTEMS **PAREXUSA** ENVISION IT ALL

© Parex USA, Inc. • June 2014 • ME URS DS 0614

PAREXUSA