



UNDERLAY C

PROFESSIONAL-GRADE, 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 6 – 8 hours
- Crack resistant and fire retardant
- Good thermal and acoustical insulating properties
- May be installed from 1/8" to 3"

Consult manufacturer for elevations over 3" thick



1. Product Name

Underlay C

2. Manufacturer

Parex USA, Inc.

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3. Product Description

Basic Use

Merkrete Underlay C was developed to provide a solid foundation substrate prior to installing tile and stone.

Uses

Underlay C provides an optimal surface for floor coverings such as vinyl, resilient tile, carpet, stone, ceramic and quarry tile. It is also exceptional for concrete surface repairs. Underlay C is ideal for achieving a slope base foundation for drainage in showers, drainage under exterior elastomeric deck coatings, or any floor requiring slope for drainage purposes.

Suitable Substrates

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

¹ Consult the cement backer board manufacturer for installation recommendations and to verify acceptability for exterior use

² Interior use only

4. Technical Data

UNDERLAY C	
Weight	1.2 lb. sq. ft. at 1/8"
Indentation: (MIL-D-3135d)	< 3%
Shear to Concrete	> 550 psi
Compressive Strength 28 day	6,000 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 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 C 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 C mortar. Mix by hand until powder is thoroughly moist.

Patching and Thicknesses up to 1/8": In a clean container, add approximately 5 quarts (4.7 liters) of clean potable water. Then add the contents of the 50-lb. (22.7-kg) Underlay C mortar. Mix thoroughly by hand or with a slow speed mixer to a smooth, thick, trowelable consistency. Do not temper with additional water.

Application

Spread by brush or trowel a thin layer preparation coat of Merkrete 626 Primer or the slurry mixture on to the substrate. 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 an 1/8" edge. It can be installed over most clean, dry sub-surfaces and can normally be covered or used within 6 – 8 hours.

Cleaning

Water is all that is needed to remove any uncured mortar 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 C below 40° F (4° C) or above 95° F (35° C). Use caution to not allow mortar to freeze for the first 72 hours. Hot weather caution: evaporation of moisture in Portland cement mortars is increased in hot, windy and dry conditions. Dampen surfaces and protect fresh mortar from rapid dehydration. Underlay C 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 C 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 C 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.