

CE-235
12/13 Supersedes 01/99

PENNTROWEL[®] LATEX UNDERLAYMENT

DESCRIPTION

PENNTROWEL Latex Underlayment is a two component SBR (styrene butadiene rubber) latex modified Portland cement mix consisting of a liquid latex emulsion and Portland cement with a silica filler. The two components are mixed together and used to smooth, resurface, or repair concrete slabs. The installed underlayment exhibits excellent physical properties and adhesion.

PENNTROWEL Latex Underlayment can be applied in thicknesses from three inches to a feather edge and is available in two grades: **Fine Grade** is recommended for thicknesses between feather edge and one quarter inch; **Regular Grade** for thicker applications. When resurfacing exceeds one inch, up to 25% peagravel may be added. Peagravel or other aggregates must be dry and free of salt and other contaminants. **Consult Corrosion Engineering specification [CES-235](#) for complete installation details.**

AREAS OF USE

Repair or patch worn or deteriorated concrete floors, stairs, or pump bases. Smooth, level, or slope concrete slabs prior to the installation of Corrosion Engineering lining systems. PENNTROWEL Latex Underlayment is compatible with the following Corrosion Engineering systems: PENNTROWEL Floor Surfacer Systems, THINSET[®] Adhesive, TUFCEM[®] II Membrane, PENNGUARD[®] Adhesive/ Membrane, PENNTROWEL L/F Systems, and PENNCOAT[®] Membrane/Lining Systems.

Setting bed for brick/tile masonry.

OUTSTANDING FEATURES

- Higher compressive, tensile, and flexural strength compared to regular sand/ cement mixes.
- Fast strength development - allows for quick installation of subsequent lining system on repaired concrete without costly down time.
- Components are proportioned for easy mixing. Easy workability.
- Excellent adhesion to properly prepared substrates.
- Better resistance to freeze/thaw cracking than Portland cement concretes. Excellent for indoor and outdoor applications.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNTROWEL Latex Underlayment
Wet Underlayment Density	137 lbs / cu ft (2195 kg/m ³)
Tensile Strength (ASTM C-307)	7 days 28 days
	700 psi (4.8 MPa) 850 psi (5.8 MPa)
Compressive Strength (ASTM C-579)	12 hours 7 days 28 days
	1600 psi (11.0 MPa) 4400 psi (30.3 MPa) 5300 psi (36.5 MPa)
Required Cure Time Before Installation of Lining	12-36 hrs - varies with ambient temperature and humidity
Adhesion to Concrete (ASTM C-321)	Greater than the tensile strength of concrete
Water Absorption (ASTM C-413)	2.3%
Coefficient of Thermal Expansion (ASTM C-531)	5.6×10^{-6} /in/in/°F (10.0×10^{-6} /cm/cm/°C)
Shrinkage (ASTM C-531)	Ultimate 0.15%
Flexural Strength (ASTM C-580)	1500 psi (10.3 MPa)
Modulus of Elasticity (ASTM C-580)	1.3×10^6 psi (8963 MPa)
Color	Slightly darker than normal concrete

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	COVERAGE
PT Underlayment Filler - Regular Grade	19557	75 lb bag	One unit (3 cu ft) of PENNTROWEL Latex Underlayment consists of 5 x 75 lb bags filler and 1 x 5 gal pail binder and will cover 144 SF @ 1/4" thickness.
PT Underlayment Filler - Fine Grade	19562	75 lb bag	
PT Latex Underlayment Binder	19558 19559	5 gal pail 55 gal drum	One gallon of Latex Underlayment Binder, when used as the wet primer, has a net theoretical coverage of 150 sq ft per gallon @ 11 mils WFT.

SAFETY PRECAUTIONS / DISCLAIMER

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and [material safety data sheets](#) before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.



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