



LATICRETE SELECT-BOND™ High Performance (ANSI A118.15) Kit

DS-36580-0220

**Globally Proven
Construction Solutions**



1. PRODUCT NAME

LATICRETE SELECT-BOND™ High Performance (ANSI A118.15) Kit

2. MANUFACTURER

LATICRETE International, Inc.
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3. PRODUCT DESCRIPTION

The LATICRETE SELECT-BOND™ High Performance (A118.15) Kit is a component of the LATICRETE SELECT-BOND Adhesive System. The SELECT-BOND High Performance A118.15 Kit is designed to be mixed with LATICRETE SELECT-BOND Adhesive to provide superior bond to most substrates as well as non-sag performance for installation of tile and stone on floors and walls. LATICRETE SELECT-BOND Adhesive is polymer modified tile and stone adhesive that can be used for both thin bed and Large Heavy Tile applications. Designed to be used alone or mixed with one of three optional LATICRETE SELECT-BOND Adhesive System Kits for additional performance enhancements – Non-Sag, Rapid and High Performance (ANSI A118.15). See individual product data sheets for each SELECT-BOND Adhesive System Kit. When used alone (without additional SELECT-BOND Adhesive System Kits, LATICRETE SELECT-BOND Adhesive provides a one-step installation for ceramic tile, porcelain tile, marble and

stone on floors and walls. Approved for use over exterior glue plywood for interior installations.

Uses

- For floor and wall installations of interior and exterior ceramic tile, porcelain tile and stone
- Ideal for most thin-set applications

Advantages

- High Performance ANSI A118.15 formula
- Excellent Large and Heavy Tile Mortar performance used as a bonding mortar from a minimum of 3/32" (2.4mm) up to a 3/4" (19mm) without shrinkage
- Smooth and Creamy consistency
- Superior bond to most substrates
- Exceeds ANSI A118.15 EHT, A118.4 H T, and A118.11
- "Extra Heavy" rating per ASTM C627
- Incredible Non-sag performance
- Exceeds EN / ISO 13007-2 Requirements for C2TEP1
- One adhesive for both thin bed and Large Heavy Tile applications

Suitable Substrates

- Concrete
- Ceramic Tile and Stone
- Cement Plaster
- Cement Backer Board (Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use)
- Concrete Masonry
- Brick Masonry
- Cement Terrazzo
- Properly Prepared Vinyl Or Other Resilient Tile (Interior Only)
- Plastic Laminate (Interior Only)
- Non Water Soluble Cut-Back Adhesive (Interior Only)
- Exterior Glue Plywood (Interior Only)
- STRATA_MAT
- HYDRO BAN Board (Consult product datasheet (DS 040.0) for specific installation recommendations)
- Cement Mortar Bed

Packaging

10 x 0.5 lbs (226 g) Kits per Carton 2 x .25 lb (113 g) packs per Kit)

Approximate Coverage

	25 lb Bag	11.3 Kg Bag
Trowel Size	ft ²	m ²
1/4" x 1/4" (6 mm x 6 mm) notched trowel	40 - 47.5	3.7 - 4.4
1/4" x 3/8" (6 mm x 9 mm) notched trowel	30-35	2.8- 3.2
1/2" x 1/2" (12 mm x 12 mm) notched trowel	20 -25	1.8 - 2.3

Shelf Life

Advanced plastic bag provides two (2) year shelf life. (non-rapid versions only) ***High humidity will reduce the shelf life of bagged product.

Limitations

- DO NOT bond to particle board, luan, Masonite® or hardwood surfaces
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproofing membranes. When a waterproofing membrane is required, use a LATICRETE® waterproofing membrane (see Section 10 FILING SYSTEM).
- Do not install tile/stone when surface temperatures are below freezing (32°[0°C])
- Only use LATICRETE SELECT-BOND Adhesive System Kits with SELECT-BOND Adhesive. Do not use with other adhesives.
- It is not recommended to mix more than one type of LATICRETE SELECT-BOND Adhesive System Kit with a bag of SELECT-BOND Adhesive.

Cautions

- Consult SDS for more safety information.
- Use LATAPOXY® 300 Adhesive for installing green marble or water sensitive stone and agglomerates, and resin backed tiles and stones.
- Contains portland cement and silica sand. Causes severe skin burns and serious eye damage. Wear protective gloves and eye protection. In case of contact, flush thoroughly with water.
- DO NOT take internally. Silica sand may cause cancer, respiratory irritation or serious lung problems. Do not breathe dust/fume. Wear a respirator in dusty areas.

- For white and light-colored stones, use LATICRETE SELECT-BOND Adhesive (white).
- Keep out of reach of children.

4. TECHNICAL DATA

Applicable Standard

- ANSI A118.4
- ANSI A118.11
- ANSI A118.15 EHT

Physical Properties

Test	Requirement	Results
Vit-Vit Shear Strength: 24 hours	100 PSI (0.69 MPa)	200-250 PSI (1.38 - 1.72 MPa)
Vit-Vit Shear Strength: 7 Days	300 PSI (2.07 MPa)	450 - 500 PSI (3.10 - 3.45 MPa)
Vit-Vit Shear Strength: 7 Water Immersion	200 PSI (1.38 MPa)	240 - 320 PSI (1.65 - 2.21 MPa)
Vit-Vit Shear Strength: 28 Days	400 PSI (2.76 MPa)	475 - 550 PSI (3.28 - 3.79 MPa)
Vit-Vit Shear Strength: 28 Day Heat Aged	400 PSI (2.76 MPa)	450 - 500 PSI (3.10 - 3.45 MPa)
Glazed Wall Tile Shear Strength: 7 Days	450 PSI (3.10 MPa)	480 - 540 PSI (3.31 - 3.72 MPa)

Test	Requirement	Results
Glazed Wall Tile Shear Strength: 7 Days Water Immersion	250 PSI (1.72 MPa)	330 - 400 PSI (2.28 - 2.78 MPa)
Glazed Wall Tile Shear Strength: 28 Days Heat Aged	450 PSI (3.10 MPa)	520 - 600 PSI (3.59 - 4.14 MPa)
Sag	< 0.50 mm	0.35 - 0.50 mm
Open Time: 20 Minutes at 28 Days	> 75 PSI (> 0.50 MPa)	181 - 326 PSI (1.25 - 2.25 MPa)
Quarry Tile- Plywood Shear Strength: 7 Days	100 psi (0.7 MPa))	120 - 140 PSI (0.83 - 0.97 MPa)
Quarry Tile- Plywood Shear Strength: 28 Days	150 psi (1.03 MPa)	160 - 180 PSI (1.0 - 1.1 MPa)

Working Properties

Property Name	Property Value
Open Time @ 70°F (21°C)	30 Minutes
Pot Life	4 hours
Time To Traffic	24 hours

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

5. INSTALLATION

Surface Preparation

All surfaces should be between 40°F (4°C) and 90°F (32°C) and structurally sound, clean and free of all dirt, oil, grease, paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with Latex Portland Cement Underlayment to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28 days old before application. There is no minimum cure time for concrete slabs when mortar is mixed with latex additive. All slabs must be plumb and true to within 1/4" (6 mm) in 10 ft (3 m). Expansion joints shall be provided through the tile

work from all construction or expansion joints in the substrate. Follow ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar.

1. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length.

2. Minimum construction for interior plywood floors.
SUBFLOOR: 5/8" (16 mm) thick exterior glue plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 16" (400 mm) o.c. maximum; fasten plywood 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) between sheet ends and 1/4" (6 mm) between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.
UNDERLAYMENT: 5/8" (16 mm) thick exterior glue plywood fastened 6" (150 mm) o.c. along sheet ends and 8" (200 mm) o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 1/8" (3 mm) to 1/4" (6 mm) between sheets and 1/4" (6 mm) between sheet edges and any abutting surfaces; offset underlayment joints from joints in subfloor and stagger joints between sheet ends; glue underlayment to subfloor with construction adhesive. Refer to Technical Data Sheet 152 Bonding Ceramic Tile, Stone or Brick Over Wood Floors for complete details.

Mixing

25 LB Bag LATICRETE SELECT-BOND Adhesive

Use approximately 2.3 - 2.5 quarts (2.1 – 2.3 L) of clean potable water. Place water in a clean mixing container. Remove 1 LATICRETE SELECT-BOND High Performance (A118.15) packet from the bag. The internal bag is a water-dispersible pack – when using the 25 lb. (11.3 kg) bag of SELECT-BOND Adhesive, drop only one SELECT-BOND High Performance A118.15 packet directly in the water in clean mixing container (Keep the remaining SELECT-BOND High Performance A118.15 Packet in the resealable bag for use later). Mix with a drill mixer until dispersed evenly in container and the dispersible pack is no longer visible. Add 25 lb bag of SELECT-BOND Adhesive.. Mix with a slow speed drill mixer (300 rpm) for 1 minute. Wait for 5 minutes and remix with drill for 1 minute.

Application

Apply mortar to substrate with flat side of trowel, pressing firmly to work into surface. Comb on additional mortar with the notched side of the trowel. Spread as much mortar as can be covered with tile in 15–20

minutes. Back butter large > 8" x 8" (>200 mm x 200 mm) irregular backed tiles to provide full bedding and firm support. Place tiles into wet, sticky mortar and beat in using a beating block and rubber mallet to embed tile and to adjust level. Check mortar for complete coverage periodically removing a tile and inspecting bedding mortar transfer onto back of tile. If mortar is skimmed over (not sticky) remove and replace with fresh mortar.

Grouting

Grout installation after a minimum of 24 hours curing time at 70°F (21°C). Grout with SPECTRALOCK® PRO Premium Grout†, SPECTRALOCK® PRO Grout†, PERMACOLOR® SELECT, PERMACOLORSelect NS or PERMACOLOR Grout.

Cold Weather Note: The setting of portland cement mortars and grouts are retarded by low temperatures. Protect finished work for an extended period when installing in cold weather. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note: The evaporation of moisture in portland cement mortars is accelerated by hot, dry conditions. Apply to dampened surfaces and protect freshly spread mortar and finished work when installing in hot temperatures.

Cleaning

Clean tools and tile work with water while mortar is fresh.

6. AVAILABILITY AND COST

Availability

LATICRETE materials are available worldwide.

For Distributor Information, Call:

Toll Free: 1.800.243.4788

Telephone: +1.203.393.0010

For on-line distributor information, visit LATICRETE at laticrete.com

Cost

Contact a LATICRETE Distributor in your area.

7. WARRANTY

See 10. FILING SYSTEM:

8. MAINTENANCE

LATICRETE and LATAPOXY grouts require routine cleaning with a neutral pH soap and water. All other LATICRETE and LATAPOXY materials require no maintenance but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

9. TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE Technical Service Hotline:

Toll Free: 1.800.243.4788, ext. 1235

Telephone: +1.203.393.0010, ext. 1235

Fax: +1.203.393.1948

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at laticrete.com.

10. FILING SYSTEM

Additional product information is available on our website at laticrete.com. The following is a list of related documents:

- DS 230.13: LATICRETE Product Warranty DS 025.0: LATICRETE 25 Year System Warranty (United States and Canada) as a component of HYDRO BAN Pre-Sloped Shower Pan only A component of: DS 230.0: LATICRETE 10 Year System Warranty (United States and Canada)

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