



Globally Proven
Construction Solutions

EZ - Set

EZ-Set is a modified Polyurethane Adhesive designed for the installation of ceramic tile, vitrified tile, Glass Mosaic Tiles and natural stone on most drywall boards and clean dry cement based surfaces. EZ-Set is a factory made pail consisting of pre-blended single component adhesive which is ready to use.



FEATURES/BENEFITS

- High Bond Strength
- Water Cleanable
- Fast Setting
- Easy to Use
- Chemical resistant
- Single component

USES

Designed for floors and walls, interior and exterior applications. For commercial and residential installations of Glass Mosaic Tiles, ceramic tile, vitrified tile and natural stone over most drywall boards and clean cement based surfaces. Used where installations must resist physical abuse, shock, and mild chemicals. (Interior & Exterior)

MANUFACTURER/ DISTRIBUTED BY

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STANDARDS/CERTIFICATIONS

- EN 1324:1996
- EN 1346
- EN 1308

Suitable Substrates

- Concrete*
- Plywood
- Calcium Silicate Board**
- Concrete Masonry*
- AAC Block Masonry*
- Cement Backer Board**
- Other Resilient Tile and stone
- Cement Mortar Beds*
- Gypsum Wallboard**
- Bison Panel Board**
- Cement Plaster*
- Cement Terrazzo*
- Existing Ceramic Tile

*All cement based surface should have been cured as per standard practices and shall be dry for tiling

**Consult backed board manufacturer for specific installation recommendations and verify acceptability for exterior use in case it is required.

NOTE: Not for use on Metallic and Plastic substrates and for metallic tiles

Packaging

20kg Pail

Colour

Off-White

Coverage

Approximate 5.1 - 5.4m² per 20 kg unit with 6mm x 6mm notch trowel

Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year* if stored off the ground in a dry area, at temperatures >0°C and <40°C.

* High humidity will reduce the shelf life of bagged product.

Limitations

- Do Not Use Below 40°F (4°C).
- Do Not Use on metallic substrates and for metallic tiles.
- Use LATAPOXY® 300 Epoxy Adhesive for installing green and water sensitive marble and agglomerates, or when chemical resistance is required. Use white mortar for white or light colored marble and stone.
- For maximum chemical resistant grout, use SpectraLOCK® Pro Premium Grout Grout or SpectraLOCK® 2000 IG
- Adhesives/mastics, mortars and grouts for ceramic tile, pavers, brick and stone are not replacements for waterproof membranes.

When a waterproof membrane is required, use a Hydroban

Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic tile/stone, thin brick and similar finishes. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.

Cautions

Consult MSDS for more safety information.

- During hot weather, protect finished work from traffic until fully cured.
- EZ-Set may irritate eyes and skin. Avoid contact with eyes and or prolonged contact with skin. In case of contact, flush thoroughly with soap water
- Use of gloves is recommended for those affected with skin irritation while using this product.

TECHNICAL DATA

Performance Properties

Test	Test Method	Results
Shear Adhesion Strength - Initial	EN 1324 : 1996	>1.5N/mm ²
Shear Adhesion Strength after Heat Ageing	EN 1324 : 1996	>1.5N/mm ²
Open Time: Tensile Adhesion Strength (Not less than 20 Minutes)	EN 1346	>1N/mm ²
Slip Resistance	EN 1308	<0.5mm
Adhesion Strength - Water immersion	EN-1324:1996 - 7.3	>0.5N/mm ²
Adhesion at elevated Temperature	EN-1324:1996 - 7.5	>1N/mm ²
Extended open time: Tensile adhesion strength after not less than 30 minutes	EN 1346	>0.5N/mm ²

Working Properties

At 21°C

Open Time	>20 minutes
Adjustment Time	>30 minutes
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.

INSTALLATION

Surface Preparation

All surfaces should be between 4°C - 32°C and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, concrete sealers or curing compounds. Rough or uneven concrete surfaces should be made smooth with LATICRETE® 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 and allowed to become completely dry.

Installation shall be made on a dry surface. New concrete slabs must be damp cured and at least 28 days old prior to application. All slabs must be plumb and true to within 6mm in 3m. Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI Specification AN-3.8 "Requirements for

Expansion Joints" or TCA Detail EJ171-91 "Expansion Joints". Do not cover expansion joints with mortar. Glass Mesh Mortar Unit: follow TCA installation detail W244.

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: 15mm thick exterior grade plywood, either plain with all sheet edges blocked or tongue and groove, over bridged joints spaced 400 mm o.c. maximum; fasten plywood 150mm o.c. along sheet ends and 200mm o.c. along intermediate supports with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm between sheet ends and 6mm between sheets edges; all sheet ends must be supported by a framing member; glue sheets to joints with construction adhesive.

UNDERLAYMENT: 15mm thick exterior grade plywood fastened 150mm o.c. along sheet ends and 200mm o.c. in the panel field (both directions) with 8d ring-shank, coated or hot dip galvanized nails (or screws); allow 3mm to 6mm between sheets and 6mm 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 "Requirements for Direct Bonding of Ceramic or Stone Tiles Over Wood Floors" for complete details.

3. **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces

For green and moisture sensitive marbles, use LATAPOXY®300 Epoxy Adhesive.

Mixing

EZ-Set is a single component, ready to use adhesive. Open the lid of the pail, mix with a scoop or trowel and apply with the proper sized notched trowel. Take out only the amount of adhesive required for use and keep the lid of the pail closed to prevent skinning of the adhesive in the pail.

Note:

Keep the lid of the pail closed for future use of remaining product. It is suggested to see that the product is kept under recommended storage conditions for effective performance.

Application

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to insure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large tiles ($> 12" \times 12"$) to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile.

If adhesive is skinned over (not sticky), remove and replace with fresh adhesive.

APPLICATION CHECKS:

EZ-Set may take more time to cure:

1. If both substrate and tile are not highly absorbent.
2. When large format tile or stone is being installed.
3. High humidity in the environment.

In such cases, it is recommended to keep the supports for extended periods as required at site.

If the bed thickness of EZ-Set is expected to be more than 5mm due to plumb issues, it is recommended to apply one layer of adhesive either on substrate or on the back of tile/ stone first and to leave it for about 12 hours to become dry. Plan to apply this first layer of adhesive with allowance of approximately 3mm bed thickness for installation of tile/stone. After the adhesive dries out, the installation can be carried out using EZ-Set by applying the balance thickness.

NOTE: If adhesive from an open pail is not completely used, seal the pail tightly with the lid and store properly for future use.

Dry Wall application Note:

While using EZ-Set to install tiles/stone on Dry wall boards like Plywood, Cement Backer board, Calcium Silicate Board, Gypsum wall board, it is important to check with the manufacturer of the board, for the load bearing capacity and internal strength of the board to sustain the loading of tiles and stones. It is recommended to commence work only on such confirmation and seek from them, the methodology of fixing of boards to keep them stable without moving and (warping) bending.

While installing tiles and stones with EZ-Set on dry wall boards, it is important to see that the joint spaces between the adjacent boards should be carried up to the top of tile and the adhesive mortar is not allowed to enter the space between the boards.

It is recommended to use spacers to create joints while tiling on the drywall boards using EZ-Set.

While filling up the joints between the tiles and stones installed on dry wall boards, with cement based grouts, it is always recommended to use 1776 grout admix plus with 1500/1600 series Tri-Poly Fortified Grout.

In case of grouting the above installations with SpectraLOCK® Pro Premium Grout; care should be taken to leave the joints on periphery of every board, which subsequently must be filled with flexible filler materials like silicone sealants or PU sealants. All plane changes, corners and differential elements must be provided with adequate spacers and shall be filled with flexible filler materials like silicone sealants, acrylic or PU sealants

Cold Weather Note: The setting of PU mortars and grouts are slowed down by low temperatures. Protect finished work for an extended period, with supports, when installing in cold weather. For faster setting, provide heating arrangement to increase ambient temperature

at site. Do not set tile when surface temperature is below freezing or when substrate is frozen.

Hot Weather Note: The evaporation in PU mortars is accelerated by hot, dry conditions. Apply only when temperature conditions are within the specified range of temperature and protect freshly spread mortar and finished work when installing in temperatures over 35°C.

Storage: EZ-Set should be stored in room temperature (Range from 10°C to 35°C) for best results.

AVAILABILITY AND COST

Availability

LATICRETE and LATAPOXY materials are available worldwide. For distributor information, call:

Telephone: (65) 6515-3028

Fax: (65) 6515-3037

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

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

LATICRETE South East Asia Pte Ltd warrants that EZ-Set is free from manufacturing defects and will not break down, deteriorate or disintegrate under normal usage for a period of one (1) year from date of purchase subject to terms and conditions stated.

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.

TECHNICAL SERVICES/ CONTACT

Technical Assistance

Information is available by calling:

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Technical and safety literature

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

se.laticrete.com