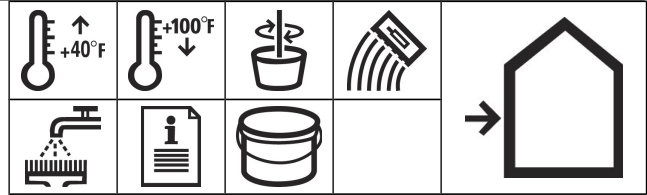


# Sto Dispersion Adhesive

80829 Dispersion Adhesive



| REPORT                        | TEST METHOD  | TEST CRITERIA                              | TEST RESULTS  |
|-------------------------------|--|--|---|
| <b>Adhesion (psi)</b>         | ASTM C-297   | 28 days                                    | > 10 Gypsum Sheathing*<br>> 11 G-P Dens-Glass® Gold**<br>> 25 3/8" plywood & OSB* |
| <b>Freeze/Thaw Resistance</b> | EIMA 101.01  | No deterioration @ 60 cycles               | Pass  |
| <b>Surface Burning</b>        | ASTM E-84  | < 25 Flame Spread<br>< 450 Smoke Developed | 5<br>10   |
| <b>VOC (g/L)</b>              | This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings.<br>VOC less than 50 g/L. |  |   |

\* Failure of substrate

\*\* Dens-Glass Gold is a registered trademark of the G-P Gypsum Corp.

| Features                       | Benefits   |
|--------------------------------|--|
| <b>1 Ready-mixed</b>           | Ready to use; no cement added at job site                      |
| <b>2 Flexible</b>              | Bridges normal movement in wood sheathing                      |
| <b>3 100% Acrylic polymers</b> | Excellent adhesion; not brittle; retains flexibility           |
| <b>4 Water-based</b>           | Safe, non-toxic; cleans up with water                          |
| <b>5 Low VOC</b>               | Meets South Coast Air Quality Management District Requirements |

A ready-mixed acrylic-based adhesive used to attach Sto Insulation Board to prepared concrete, masonry or sheathing substrates in StoTherm® ci Systems. Use diluted as a bonding aid for low porosity substrates such as glass block and glazed tile and glazed masonry units.

### Coverage as an adhesive

350-385 ft<sup>2</sup> (32-36 m<sup>2</sup>) per pail, applied using a U-notched trowel with notches 3/16" wide x 3/8" high (5 mm x 9,5 mm), and notches spaced approximately 1-7/8" (47 mm) apart on center.

### Coverage as bonding agent

400-600 ft<sup>2</sup> (37-56 m<sup>2</sup>) per pail applied using a clean 1/2" nap roller

Coverage may vary depending on application technique and surface conditions.

### Packaging

5 gal. pail (19 L).

### Shelf Life

18 months, if properly stored and sealed.

### Storage

Protect from extreme heat [90°F (32°C)], freezing, and direct sunlight. After opening, Sto Dispersion Adhesive will keep for several weeks if properly stored and resealed.

## Sto Dispersion Adhesive

### Surface Preparation

Surfaces must be clean, dry, and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired.

Avoid application over irregular surfaces.

Resurface, patch or level surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

### Mixing

Mix with a clean, rust-free electric drill and paddle to a uniform consistency. Sto Dispersion Adhesive (when used as an adhesive) is applied full strength (no dilution).

When used as a bonding aid dilute Sto Dispersion with up to 10% clean water, by volume, and mix to a uniform consistency with an electric drill and rust free

### Application

**Adhesive Application:** Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

Apply to the back of the insulation board with the appropriate size notched trowel. Form uniform ribbons of adhesive parallel to the short dimension of the board so the ribbons are oriented vertically when the insulation board is applied. Immediately install the board in horizontal rows with staggered joints and apply firm pressure over the board surface.

**Bonding Aid Application:** Apply 15 wet mil coat to substrate with a 1/2" nap roller and let dry. Verify desired adhesion results by field testing of a trial application installed using the proposed means and methods.

### Curing/Drying

Sto Dispersion Adhesive dries within 24 hours under normal conditions [70°F (21°C), 50% RH]. Drying time varies depending upon temperature/humidity and surface conditions. Allow additional drying time during cold or humid weather before application of primer and finish. For low absorption substrates, including surfaces protected with StoGuard™, substantially prolonged drying times should be anticipated.

Protect from rain, freezing and continuous high humidity until completely dry..

### Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

### Health And Safety

#### Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

#### WARNING!

Causes eye and skin irritation.

#### Precautionary Statement

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Spills:** Collect with suitable absorbent material such as cotton rags.

**Disposal:** Dispose of in accordance with local, state or federal regulations.

#### Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet for further health and safety information.

Safety Data Sheet (SDS) is available at [www.stocorp.com](http://www.stocorp.com)

#### LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

Refer to *Sto Specifications* for more complete information on proper use and handling of this product.

### Limitations

- Use Sto Dispersion Adhesive only when surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- Sto Dispersion Adhesive is not recommended for use when cool damp conditions exist for prolonged periods.
- Cool damp conditions retard drying and may require extended periods of protection or delay in rasping insulation board surface.
- Do not use over pressure treated or fire retardant treated wood surfaces.
- Do not use on damp surfaces or on substrates with high moisture.

**Sto Corp.**  
3800 Camp Creek Parkway  
Building 1400, Suite 120  
Atlanta, GA 30331

Tel: 404-346-3666  
Toll Free: 1-800-221-2397  
Fax: 404 346-3119

[www.stocorp.com](http://www.stocorp.com)

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#### Attention

This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.** For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, [www.stocorp.com](http://www.stocorp.com).