



# Sto RFP

225

Division 7

Sto RFP is a ready-mixed acrylic-based plaster material used as a base coat in Sto Cladding Systems, including Sto EIFS NEX<sup>TM</sup>. This fiber-reinforced product may also be used to repair hairline cracks in prepared concrete, masonry or plaster surfaces.

## Features & Benefits

### Ready-mixed

Ready to use; no cement added at job site

### Polymer-based

Eliminates efflorescence risk; increases finish coverage

### 100% acrylic polymers

Superior flexural strength; resists cracking

### Vapor permeable

Allows substrate to breathe naturally; resists blisters caused by trapped vapor

### Water-based

Safe, non-toxic; cleans up with water

## Technical Data

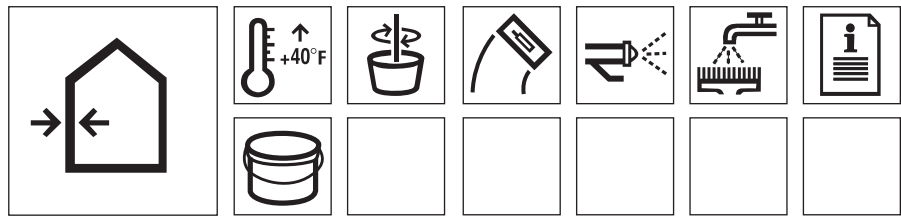
| TEST  | METHOD      | CRITERIA                                   | RESULTS   |
|---|-------------|--|---|
| Adhesion (psi) [kPa]  | ASTM C-297  | 28 days                                    | >13 - EPS board* [90]<br>>30 - Dens-Glass® Gold** [207]*<br>>25 - Gypsum sheathing* [172]<br>>95 - Concrete block [655]<br>>50 - Concrete [345] |
| Water Absorption (oz/ft <sup>2</sup> /hr) [kg/m <sup>2</sup> /hr] | Lab Method  | 28 days                                    | .331 [.099]   |
| Flexural Strength (psi)   | ASTM C-203  | 28 days                                    | 65 [448]  |
| Impact Strength   | EIMA 101.86 | Standard impact classification             | Pass  |
| Accelerated Weathering  | ASTM G-23   | 2000 hours                                 | Pass  |
| Freeze/Thaw Resistance  | EIMA 101.01 | No deterioration at 60 cycles              | Pass @ 90 cycles  |
| Surface Burning   | ASTM E-84   | < 25 Flame spread<br>< 450 Smoke developed | 0<br>20   |

\*Substrate failure

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

# Sto RFP

225



## Coverage

85-100 ft<sup>2</sup> (7.9-9.3 m<sup>2</sup>) at the recommended dry thickness of 1/16" (1.6 mm) over properly rasped Sto Insulation Board. Coverages may vary depending on application technique and surface conditions.

## Packaging

5 gal pail (19 L)

## Shelf Life

12 months, if properly stored and sealed.

## Storage

Protect from extreme heat [90° F (32° C)], freezing and direct sunlight.

## Surface Preparation

**Concrete and masonry surfaces:** Surfaces must be free of all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Loose or damaged material must be removed by waterblasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Refer to ASTM D-4258 and ASTM D-4261 for complete details on methods of preparing cementitious substrates for coatings.

**Sto Exterior Insulation and Finish Systems (EIFS):** Insulation board must be rasped and free of all bond-inhibiting materials.

## Sto Quik Gold Soffit System:

Sheathing surface must be free of all bond-inhibiting materials, damage or deterioration.

## Mixing

Mix with a clean, rust-free electric drill and paddle. A small amount of clean, potable water may be added to aid workability.

## Application

Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

**Sto Exterior Insulation and Finish System/ Sto Quik Gold Soffit System:** Apply Sto RFP with spray equipment such as the StoSilo System or Sto's M-8 Spray Pump, or using a stainless steel trowel, to an approximate thickness of 1/8" (3 mm). Work horizontally or vertically in strips of 40" (1016 mm), and immediately embed Sto Mesh into the wet Sto RFP by troweling from the center to the edges of the mesh. Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks. Sto RFP must completely hide the reinforcing mesh when dry. Reapply additional base coat, if necessary, to hide the reinforcing mesh as soon as first application is dry. Once applied, the working time is up to 25 minutes depending upon material, ambient temperatures and surface conditions.

**Crack Repair:** Embed 6" (152 mm) wide Sto Mesh centered over the crack in Sto RFP and feather along edges.

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

## Curing/Drying

Sto RFP dries within 24 hours under normal [70° F (21° C), 50% RH] conditions. Full drying varies depending on temperature/ humidity and surface conditions.

Cool damp conditions retard drying and may require extended periods of protection from rain and freezing.

## Clean Up

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

## Limitations

Use Sto RFP only when surface and ambient temperatures are above 40° F (4° C) and below 100° F (38° C) during application and drying period. Sto RFP should not be used on weather-exposed horizontal or below grade surfaces or where immersion in water may occur.

Sloped surfaces: minimum required slope is 1:2 (27°) and maximum width is 12" (300 mm). Sto Mesh embedded in Sto Flexyl, not Sto RFP, is required beneath finish coating. Increase slope for northern climates to prevent accumulation of ice/snow and water on surface. Periodic inspection and increased maintenance of coating may be required.

Sto RFP should not be used as a finish coat.

## Health & Safety

### Health Precautions

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

### Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

### First Aid

**SKIN CONTACT:** Wash thoroughly with soap and water.

**EYE CONTACT:** Flush immediately with water for 10-15 minutes and contact a physician.

**RESPIRATORY PROBLEMS:** Remove affected person to fresh air immediately and contact a physician.

**HYGIENE:** Wash hands immediately after use. Wash clothing before re-use.

### Spills

Collect with suitable absorbent material such as cotton rags.

### Disposal

Dispose in accordance with local, state or federal regulations.

### Warning

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

### LIMITED WARRANTY

THIS PRODUCT IS SUBJECT TO A WRITTEN LIMITED WARRANTY WHICH CAN BE OBTAINED FREE OF CHARGE FROM: Sto Corp., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331; Tel: 404-346-3666; Fax: 404-346-3119.

## 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)



100% ACRYLIC  
POLYMERS

S155-225 01/03 VEN 5609

**sto**