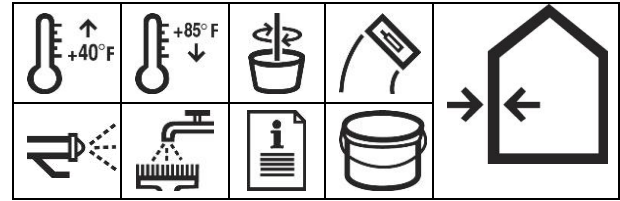


StoArmat Classic plus

00250-064 Sto Armat Classic plus



Sto Armat Classic plus is a ready-mixed, high build acrylic based plaster material used as a base coat in the StoVentec® Render Ventilated Rainscreen® wall system.

Coverage (per pail)

50-60 ft² (4.6-5.6m²) applied at nominal 1/8 in (3mm) thick

Coverage will vary depending on substrate conditions, application technique, waste factor, and final thickness.

Construct a mock-up under actual conditions of use to verify proper surface preparation, coverage, and aesthetics, for approval by the appropriate authority.

Packaging

55 lb (25 kg) oval pail

Shelf Life

12 months, if properly stored and sealed.

Storage

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

Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS ¹
Adhesion to Sto Carrier Board A+	ASTM D4541	≥ 15 psi (103 KPa)	Pass
Finish Coat Adhesion to Sto Armat Classic plus	CAN/ULC S716.1	Initial, Wet, and Dry Adhesion ≥ 11.6 psi (80 kPa)	Pass
UV Resistance of Lamina	ASTM G155	No deleterious effects	Pass
Water Vapor Permeance of Lamina ng/(Pa•s•m²)	ASTM E96 Method A	Measure	0.83 perms [47.43 ng/(Pa•s•m ²)]
Surface Burning	ASTM E84	Flame Spread: ≤ 25 Smoke Dev: ≤450	Flame Spread: 10 Smoke Developed: 30
Surface Burning of Lamina	ASTM E84	Flame Spread: ≤ 25 Smoke Dev: ≤450	Flame Spread: 5 Smoke Developed: 40
Flame Propagation	NFPA 285	Comply with NFPA 285 Chapter 10 Conditions of Acceptance	Complies
Impact Resistance	ASTM E2486	High Impact Ultra-High	Pass ² Pass ³
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings. VOC less than 50 g/L.		
Building Code Compliance	Meets requirements for use on noncombustible construction as a component of StoVentec Render Ventilated Rainscreen. Refer to Intertek Design Listing Sto/CWP 30-01		

1. Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests
 2. Sto Armat Classic plus at 3.5-4 mm thick over cementitious base coat with standard (min 4.2 oz) mesh over 1 in EPS
 3. Sto Armat Classic plus with Sto Mesh embedded over Sto Armor Mat 20 oz Mesh embedded in Sto cementitious base coat over 1.5 in EPS

Features

Benefits

1 Ready-mixed	Ready to use; no cement added at job site
2 Polymer-based	Eliminates efflorescence risk; increases finish coverage
3 100% Acrylic polymers	Superior flexural strength; resists cracking
4 High build gaging aggregate	High impact resistance
5 Vapor permeable	Allows substrate to diffuse water vapor
6 Water-based	Safe, cleans up with water
7 Low VOC	Reduced environmental impact

Surface Preparation

Base Coat in StoVentec Render System: Ensure the surface is free of all bond-inhibiting materials. Refer to Product Bulletin for installation of Sto Carrier Board A+.

Mixing

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

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Application

Base Coat in StoVentec Render System:

Apply with a stainless steel trowel to a minimum thickness of 3mm (1/8 in). Work horizontally or vertically in strips of slightly more than 1m (40 in), and immediately embed Sto Mesh into the wet base coat 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. Base coat 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.

Curing/Drying

Dries within 24 hours under normal conditions [70°F (21°C), 50% RH]. Full mechanical properties achieved in 7 days under normal 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. 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.

Limitations

- Use only when surface and ambient temperatures are above 40°F (4°C) and below 85°F (29°C) during application and drying period.
- Do not use as a finish coat.
- Do not use on horizontal or below grade surfaces or where immersion in water may occur
- Sloped surfaces: refer to Sto details.

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 (SDS) at www.stocanada.com 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 Canada Ltd.

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

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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.