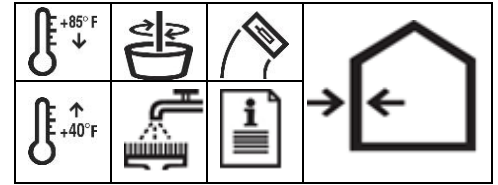


PRODUCT BULLETIN

StoArmat Classic Plus

Product Number: 81738



PRODUCT DESCRIPTION

StoArmat Classic Plus is a cement-free high build acrylic-based plaster material used as a fortification layer over existing EIFS wall surfaces. It provides outstanding impact and puncture resistance, and resists impact from woodpeckers at a substantially higher level than conventional EIF Systems.

FEATURES	BENEFITS
Outstanding resistance to sharp objects	Provides a woodpecker-resistant repair to woodpecker-damaged walls. Acts as a woodpecker-resistant fortification layer in StoTherm® ci Systems
Outstanding resistance to blunt impact damage	Protects new and existing buildings from both high energy impact and woodpeckers
Cement-free base coat	Does not effloresce; superior aesthetics, less maintenance
Water-based	Safe, cleans up with water
Low VOC	Reduced environmental impact

COVERAGE (per pail):

- 40-45 ft² (3.7-4.2m²) applied at ³/₁₆ inch (4.0mm) thick as a Fortification Layer
- 45-50 ft² (4.2-4.6m²) applied as a base coat with Sto Mesh embedded at ¹/₈ in (3mm) thickness

Coverage may vary depending on substrate, application technique, waste factor, and other variables that may exist. Always construct a mock-up under actual conditions of use to verify coverage and aesthetics

Color: beige

Packaging:

65 lb. (29.4 kg) pail

Shelf Life: 12 months in original, unopened, properly stored and sealed container.

Storage: Store in tightly sealed container. Protect from extreme heat [90°F (32°C)], freezing and direct sunlight.

USES

StoArmat Classic Plus has multiple uses for both restoration and new construction

Restoration:

- Use as a fortification layer over existing EIFS to repair and resist damage by woodpeckers and other impact or abuse from both blunt and sharp objects. Existing EIFS must be code compliant and properly installed over code compliant base wall construction. For repair of EIFS damage refer to *StoTherm ci (EIFS) Repair and Maintenance Guide*.

New Construction:

- Use as a fortification layer in addition to the standard base coat in StoTherm® ci Systems to resist damage by woodpeckers and other impact or abuse from both blunt and sharp objects. The specified Sto portland cement base coat for the StoTherm® ci System must be reinforced with Sto Armor Mat (15 oz or 20 oz)
- Use as a standalone base coat with Sto Mesh 6oz. in StoVentec Render wall system for an impact resistant rainscreen façade
- Use as a standalone base coat with Sto Mesh in StoTherm® ci wall systems for an impact resistant EIFS façade (limited to use on Type V [combustible] construction)

SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, efflorescence, mold, algae, mildew, and any other contamination that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist.

Mixing: mix with a clean rust-free electric drill and paddle. A small amount of clean, potable water may be added to adjust workability.

PRODUCT BULLETIN

StoArmat Classic Plus

Product Number: 81738

APPLICATION as a FORTIFICATION LAYER

1. Install StoArmat Classic Plus with Sto Mesh embedded over the properly prepared existing EIFS wall surface or as an added layer in new StoTherm® ci wall system construction. Apply with a stainless steel trowel. Work horizontally or vertically in strips of approximately 40 inches (1m), and immediately embed Sto Mesh in the wet material by troweling from the center to the edges of the mesh. Overlap mesh seams minimum 2-1/2 inches (64mm) and smooth the material to eliminate trowel marks and to completely hide the mesh color. Allow to dry.
2. Apply a second coat to achieve a minimum total uniform thickness of 3/16 inch (4.0mm). If the required thickness is not achieved apply another coat to achieve the 3/16 inch (4.0mm) thickness when dry.
3. Install the specified Sto finish.

APPLICATION as a BASE COAT

Sto Ventec® Render, StoTherm® ci, StoTherm® ci GPS, and StoTherm® ci XPS wall systems

1. Install StoArmat Classic Plus with Sto Mesh embedded over the properly installed substrate (Sto Carrier Board A+ in StoVentec® Render; EPS, GPS, or XPS insulation board in StoTherm® ci systems). Work horizontally or vertically in strips of approximately 40 inches (1m), and immediately embed Sto Mesh (Sto Mesh 6oz for StoVentec® Render) in the wet material by troweling from the center to the edges of the mesh. Overlap mesh seams minimum 2-1/2 inches (64mm) and smooth the material to eliminate trowel marks and to completely hide the mesh color. Allow to dry.
2. Apply a second coat to achieve a minimum total uniform thickness of 1/8 inch (3mm) when dry.
3. Install the specified Sto finish.

Refer to applicable Sto Specifications for information on full system installation:

- 9000 StoVentec Render
- 5200 StoTherm ci
- 5300 StoTherm ci XPS
- 5800 StoTherm ci GPS

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.
- Limited to Type V (combustible) construction when used as a based coat in StoTherm® ci systems
- Not recommended as a component of StoTherm ci Mineral
- 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.

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 delay 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.

LIMITED WARRANTY

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

HEALTH & 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

PRODUCT BULLETIN

StoArmat Classic Plus

Product Number: 81738

HEALTH & SAFETY (CONTINUED)

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. Store locked up.

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) on www.stocorp.com for further health and safety information.

TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT ¹
Adhesion to Sto EPS Insulation Board ²	ASTM E2568 / C297	> 15 psi (103 KPa)	17.8 psi (123 kPa) AVG tensile bond strength
Impact Resistance ²	ASTM E2568 / E2486	<ul style="list-style-type: none"> Standard impact resistance rating with 4.5 oz mesh Ultra-High impact resistance rating with 15oz + 4.5oz mesh 	<ul style="list-style-type: none"> Meets Standard impact resistance with one layer Sto Mesh (4.5 oz) Meets Ultra-High impact resistance with one layer Sto Intermediate Mesh and one layer Sto Mesh (11oz + 4.5oz mesh)
Simulated Bird Strike	Lab Method Bird Strike Resistance	No through penetration at 32N (7.2 lbf) after 25,000 strikes	No through penetration at 32N (7.2 lbf) after 27,000 strikes
Accelerated Weathering ²	ASTM E2568 / G155	No deleterious effects after 2000 hours	No deleterious effects ³ after 2000 hours
Salt Spray ²	ASTM E2568 / B117	No deleterious effects after 300 hours	No deleterious effects ³ after 1000 hours
Freeze/Thaw Resistance ²	ASTM E2568 / E2485	No deleterious effects after 10 cycles	No deleterious effects ³ after 60 cycles
Water Vapor Transmission	ASTM E96, Method B	Measure at nom. 3/16 in (4.8mm)	21 Perms
Water Penetration Resistance ²	ASTM E2568 / E331	No water penetration after 2 hours at 6.24 psf (0.299 Pa)	No water penetration after 2 hours at 6.24 psf (299 Pa)
Water Resistance ²	ASTM E2568 / D2247	14 days	No deleterious effects 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	Complies with requirements for use on noncombustible construction when used as part of StoVentec® Render wall system based on testing in accordance with NFPA 285. Refer to Intertek Design Listing No. Sto/CWP 30-02.		

1. Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.

2. Results based on testing as the base coat component of StoTherm ci

3. No deleterious effects = no cracking, checking, crazing, erosion, blistering, peeling, or delamination

<p>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</p>	<p>Revision Number: 000 Date: 09/2023</p>	<p style="text-align: center;">ATTENTION</p> <p>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</p>
--	--	--