

Product Information

ULTRASHIELD 250 Textured Finishes



DESCRIPTION:

Decoplast UltraShield 250 Textured Finish is a high-performance, low-VOC, waterborne exterior finish for durable, weather-resistant wall claddings. This multi-functional formulation blends premium components for **superior water repellency, breathability, flexibility, and aesthetics**—perfect for commercial and residential facades in moderate to harsh environments. At its heart, it harnesses advanced elastomeric technology via self-crosslinking copolymer chemistry for exceptional crack-bridging (1-2 mm down to -20°C) and 250% elongation, ensuring resilience against structural shifts and thermal expansion. **Engineered for 10-20+ years of longevity**, it forms a **breathable, hydrophobic barrier that combats UV degradation, moisture ingress, and substrate movement**.

Key attributes include ~100° water contact angle with up to 50% absorption reduction, negligible <10% impact on vapor transmission, and robust UV/weather durability. Its textured aesthetics offer low dirt pickup resistance, that hide imperfections and offer architectural elegance. Compliant with <100 g/L VOC standards and Class A/Class 1 fire ratings (ASTM E84 in EIFS assemblies), it delivers a sustainable, eco-friendly option for demanding exteriors.

TEXTURES:

Genova 1.0mm Fine Sand	Taormina 1.0mm Fine Swirl	Ispica Freestyle 0.75mm
Trieste 1.5mm Med Sand	Graffiato 1.5mm Medium Swirl	Calcare Limestone
San Remo 2.0mm Coarse Sand	Graffiato 2.0mm Coarse Swirl	Liscio Plaster Smooth

PERFORMANCE CHARACTERISTICS:

Property	Value	Test Method/Notes
Appearance	Textured, opaque coating; customizable colors/textures	Visual
Solids Content	51-60% (by weight)	ASTM D2369
Viscosity	<1,000 cps	Brookfield, 25°C
Density	1.02-1.05 g/cm ³	ASTM D1475
pH	7.5-9.0	ASTM E70
VOC Content	<100 g/L	EPA Method 24

Attribute	Description	Key Metrics	Contributing Factors
Water Repellency & Absorption	Excellent resistance to penetration; promotes droplet beading and shedding	Contact angle: ~100° - Absorption reduction: Up to 50% vs. untreated acrylics	DOWSIL™ IE 6694 DOWSIL™ 87
Moisture Vapor Transmission (Breathability)	High permeability for moisture escape; prevents mold /substrate damage	Transmission rate: High (negligible <10% reduction with additives)	Acronal® 4511 copolymer

Durability & Weather Resistance	UV stability, adhesion to insulation boards; resists chalking/fading	Service life: 10-20+ years (moderate exposures) - Fire rating: Class A/Class 1 (ASTM E84)	RHOPLEX™ EI-2000 (acrylic UV resistance); Acronal® 4511 (elastomeric durability)
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COVERAGE:

Genova 1.0 Fine Sand: 140—165 ft² per pail (13-15.3 m²)

Trieste 1.5 Med Sand: 120—145 ft² per pail (11.1-13.5 m²)

San Remo 2.0 Coarse Sand: 75—100 ft² per pail (7-9.3 m²)

Taormina 1.0 Fine Swirl: 135—160 ft² per pail (12.5-14.9 m²)

Graffiato 1.5 Medium Swirl: 135—160 ft² per pail (12.5-14.9 m²)

Graffiato 2.0 Coarse: 75—100 ft² per pail (7-9.3 m²)

Ispica Freestyle: 40—130 ft² per pail (3.7-12.1 m²)

Calcare Limestone – 140 – 150 ft² per pail (13-13.93 m²)

Application Temperature: 40° – 110° F (5° – 43° C)

Working Time: ¼ Hour

Set Time: 8 – 12 Hours

Dry Time: 24 – 72 hrs. at room temperature. Working and drying time will vary with temperature and humidity.

Packaging: 5-gallon pail 68.5 lbs. (19L) / 31 kg per pail.

Shelf Life: 24 months if stored properly.

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

Flexibility & Crack Bridging	Accommodates thermal expansion/settling; low-temp performance	Elongation: High - Flexibility: To -20°C - Crack bridging: Up to 1-2 mm	Acronal® 4511
Dirt Pickup & Aesthetics	Low-tack surface resists soiling; uniform textured finish	Dirt pickup resistance: >8/10 - Hiding power: Excellent	Acronal® 4511 & RHOPLEX™ EI-2000

Elastomeric Performance provides robust flexibility to handle minor substrate and thermal movement. Powered by Acronal® 4511's acrylate-acrylonitrile copolymer, the system exhibits self-crosslinking for enhanced tensile properties and low-temperature performance, ideal for EIFS applications where joints, cracks, or thermal differentials are common.

Elastomeric Property	Value	Test Method/Notes
Elongation at Break	250%	ASTM D2370 (dry film); enables high stretch without rupture
Tensile Strength	290 psi	ASTM D2370; balances strength with extensibility
Young's Modulus	100-200 psi	ASTM D2370; low modulus for superior flexibility
Crack Bridging	Up to 1.58 mm / 1/16" (at 23°C); 1 mm at -10°C	ASTM C1305 or equivalent; bridges hairline cracks in substrates
Low-Temperature Flexibility	No cracking down to -20°C (mandrel bend test)	ASTM D522; maintains pliability in cold climates
Adhesion After Elongation	>5B (crosshatch) post 100% elongation cycles	ASTM D3359; retains bond to insulation after flexing

Elastomeric Notes: These properties ensure the finish accommodates up to 1-2 mm of movement per linear foot, reducing stress concentrations and extending system life.

SURFACE PREPARATION:

Concrete and masonry surfaces: 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 Decoplast leveling materials. Refer to ASTM D-4258 Standard Practice for Surface Cleaning of Concrete and ASTM D-4261 Standard Practice for Concrete and Masonry Units for complete details on methods of preparing cementitious substrates for coatings.

Decoplast Exterior Insulation and Finish Systems (EIFS): Surface must be free of all bond-inhibiting materials. For optimal performance Decoplast recommends priming cementitious substrates using the appropriate Decoplast primer, tinted to the same color as the finish coating prior to application of finish.

Gypsum wallboard surfaces: Wallboard must be taped and fasteners spotted with joint compound. Refer to ASTM C-840 Standard Specification for Application and Finishing Gypsum board and gypsum wallboard manufacturer's literature. Surface must be free of dust, dirt and other bond inhibiting materials. Surface must be primed with appropriate Decoplast Primer.

MIXING:

Mix with a clean, rust-free electric drill and paddle. A small amount of clean water may be added to aid workability. Limit addition of water to amount needed to achieve the finish texture.

APPLICATION:

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

ULTRASHIELD 250 Finish: Apply with a clean stainless-steel trowel to a rough thickness slightly more than the largest aggregate size. Use the trowel to pull the material down to a uniform thickness no greater than the largest aggregate size. Achieve final texture by floating with trowel in a figure eight motion: use a stainless-steel trowel or plastic float. Once applied, the working time is up to 20 minutes depending upon material, ambient temperatures and surface conditions. **Spray:** Apply Decoplast with a hand-held gravity feed hopper-type sprayer, texture spray pump machine, or other appropriate equipment. Apply an even coat to ensure full coverage of the surface. Spray application is not recommended for swirl texture finishes.

Decoplast Ispica: Apply with a clean, stainless-steel trowel. Application thickness varies depending on the pattern or texture desired, (maximum thickness not more than 3/16" [4.8 mm]). Texturing may be achieved by trowel, special roller or putty knife. Maintain uniform texture and minimum 1/16" (1.6 mm) thickness to help promote consistent color.

IMPORTANT: ALWAYS check color for proper match prior to application. If the color does not match, STOP-call your Decoplast representative. For best results always prime cementitious substrates. Apply coating in a continuous application, always working from a wet edge or architectural break to eliminate cold joints. Minor shade variations may occur from batch to batch refer to batch number on pail. Avoid installing separate batches side-by-side and avoid application in direct sunlight. Avoid installing new finish adjacent to weathered or aged finish. Decoplast will not be responsible for shade or color variation from batch to batch, variation caused by application or substrate deficiencies, or fading resulting from natural causes such as weather. Protect installed product from rain, freezing, and continuous high humidity until completely dry.

CURING/DRYING:

Decoplast 250 ULTRASHIELD Finish typically dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Drying time varies depending on temperature/humidity and surface conditions. Thicker textures require extended drying time and protection.

CLEAN UP:

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

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LIMITATIONS:

Use only when surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
Use Dark Color Finishes only when surface and ambient temperatures are above 50°F (10°C) and below 100°F (38°C) during application and drying period. For Exterior Insulation and Finish Systems (EIFS), select colors with a lightness value of 20 or greater. Decoplast DPR Textured Finish is not suitable for use on horizontal surfaces exposed to weather, below grade applications, or surfaces immersed in water.
For Exterior Insulation and Finish Systems (EIFS), select colors with a lightness value of 20 or greater.
For Sloped surfaces: Refer to Decoplast details.

HEALTH AND SAFETY

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 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.decoplast.com

LIMITED WARRANTY

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

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

ATTENTION/IMPORTANT

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 Decoplast instructions. Greenmaker Industries LLC. 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 Greenmaker Industries 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. GREENMAKER INDUSTRIES. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH DECOPLAST WARRANTY WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME. For the most current information on proper application, clean-up, mixing, specifications and additional information please refer to the Decoplast website, www.decoplast.com.



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