

PREMIUM ACRYLIC UNDERCOAT 3-IN-1

This Technical Data Sheet (TDS) provides professional instructions for applying DELUXE COATINGS PREMIUM ACRYLIC UNDERCOAT 3-IN-1. By integrating system-based preparation with expert application techniques, you will ensure an optimal finish, color depth, and long-term durability.

1. PRODUCT FEATURES & INTENDED USE

Product Overview

Primer / Sealer / Undercoat

Highlights the multi-benefit formulation in a single coat.

Triple-Action Formula

Emphasizes versatility and labor-saving efficiency.

Adhesion Promoter

Key performance feature for bonding to smooth or difficult substrates.

Substrate Neutralizer / Porosity Equalizer

Describes how it seals uneven absorption on raw surfaces.

Key Product Features

- **Dual-Surface Versatility:** Formulated with an advanced 100% acrylic resin binder engineered for seamless performance across both indoor living spaces and exterior facades.
- **All-Weather & UV Defense:** Packed with lightfast pigments and UV stabilizers to prevent chalking, peeling, and color loss under direct sunlight and harsh atmospheric exposure.
- **Scrub & Stain Resistance:** Produces a durable, washable film that withstands scuffs, grease, and household stains without burnishing.
- **Mildew & Moisture Barrier:** Active anti-fungal and anti-microbial additives inhibit mold, algae, and fungal growth in high-humidity or wet environments.
- **Tannin & Stain Blocking:** Describes its ability to lock in minor timber bleed and water marks.
- **Water-Borne / Low VOC / Low Odor:** Complies with modern environmental standards for indoor air quality, enabling rapid re-occupancy during painting projects.
- **Flexible Film Technology:** Expands and contracts with substrate movement caused by thermal changes to resist hairline surface cracking.
- **Breathable Deep Penetration:** Formulated with advanced Silane/Siloxane technology, this Acrylic Undercoat penetrates deeply into porous roof substrates (such as clay and terracotta tiles) to provide hydrophobic, water-repellent protection. It allows the substrate to "breathe" by permitting moisture vapor to escape while blocking liquid water ingress, preventing internal moisture trap, blistering, and freeze-thaw damage.

Intended Use & Applications

- **Recommended Substrates:** Formulated for application on properly primed masonry, concrete, cement plaster, drywall/gypsum board, brickwork, fiber cement, and sound timber.
- **Interior Applications:** High-traffic and moisture-prone interior zones including kitchens, bathrooms, hallways, living areas, classrooms, and commercial spaces.
- **Exterior Applications:** Architectural building walls, exterior pillars, boundary walls, balconies, fascias, and soffits.
- **Project Scope:** Suitable for both initial coating on new construction and high-performance maintenance recoating over sound existing systems.
- **Application Flexibility:** Formulated for effortless application via standard bristle brush, microfiber roller, or airless spray equipment.

2. TECHNICAL SPECIFICATIONS & PHYSICAL PROPERTIES

Parameter	Specification Standard	Technical Values / Notes
Resin / Binder Type	100% Premium Acrylic Emulsion	Provides maximum adhesion & film flexibility
Solids Content	ASTM D2697	Volume: 35% ± 2% Weight: 48% ± 2%
Density / Specific Gravity	ISO 2811	1.15 - 1.30 gm/cm³
Viscosity	ASTM D562 (Krebs Unit)	>90 KU at 25°C
Theoretical Coverage	Standard Application	10-12 m²/L per coat
Recommended Film Thickness	Per Coat	Wet (WFT): 85-100µm Dry (DFT): 35-40µm
Finishes Available	Specular Gloss Units	Flat/Matt (>5 @ 60°)
Colour Range	Colour spectrum	White & tintable to pastel via a tinting system
Drying Times (at 25°C & 50% RH)	ASTM D1640	Touch Dry: 30–60 min Recoat: Min 2–4 hrs Full Cure: 7–14 days
VOC Content	EPA Method 24 / EU Limits	< 50 gm/L (Low VOC Compliant)
Flash Point & Flammability	Waterborne System	Non-flammable Flash Point: N/A
pH Value	Units	8.0 - 9.0 (adjusted using agents like ammonia)

3. SURFACE PREPARATION & APPLICATION INSTRUCTIONS

Surface Preparation: All surfaces must be clean, dry and firm before application. Fill all defects with appropriate filler.

GALVANIZING & ZINCALUME®

New: Clean with galvanized iron cleaner, until water break surface. Rinse and allow to dry. Sand lightly to provide a key for subsequent coats of paint. Ensure that surface is cleaned after sanding. Put recommended coat of Deluxe Acrylic Undercoat 3-in-1.

Weathered: Remove rust by sanding or wire brushing back to bright metal surface. Ensure that surface is cleaned after sanding. Put recommended coat of Deluxe Acrylic Undercoat 3-in-1.

Plaster / Fiber Cement / Cement / Bricks

Remove oil, grease and dirt with a suitable degreaser. Remove efflorescence and lime by wire brushing. Remove mould with bleach and rinse well. Remove distemper. Rinse with clean water and allow to dry. Put recommended coat of Deluxe Acrylic Undercoat 3-in-1.

Plywood / Chipboard

Round off sharp edges and fill knots with suitable filler. Seal knots. Put recommended coat of Deluxe Acrylic Undercoat 3-in-1.

Surfaces Previously Painted with Enamels & Other Glossy Surfaces

Remove mould with bleach and rinse well. Remove oil and grease with sugar soap solution, particularly around stoves and other food preparation areas. Fill all defects with appropriate filler. Ensure clean surface prior to painting. Put recommended coat of Deluxe Acrylic Undercoat 3-in-1.

Mild Steel / Aluminium / PVC

Remove rust by sanding or wire brushing back to bright metal surface. Remove oil, grease and dirt with suitable degreaser. Clean until water break surface is obtained. Rinse thoroughly, repeat if necessary. Allow to dry. Put recommended coat of Deluxe Acrylic Undercoat 3-in-1.

Application Conditions & Parameters

- **Ambient & Surface Temperature:** 10°C to 35°C.
- **Relative Humidity:** Below 85%. Do not apply if rain, dew, or freezing temperatures are expected within 24 hours.
- **Thinning Instructions:** Product is ready to use; do not dilute.

Application Equipment Guidelines

- **Brush:** High-quality synthetic (nylon/polyester) bristle brush.
- **Roller:** 9-12mm nap for smooth interior surfaces; 15-20mm nap for textured exterior masonry.
- **Airless Spray:** Tip size 0.015"-0.019", fluid pressure 1,800-2,200 PSI, 60 mesh filter. Overlap passes by 50%.
- **Boxing:** If utilizing multiple containers of the same color, mix them together in one large, clean bucket to guarantee color consistency throughout the project.

Recommended Top Coats

- DELUXE Interior / Exterior Product Range
- DELUXE Super Cover Ceiling Paint
- DELUXE High Gloss Acrylic Roof Membrane
- DELUXE Envirocool Range
- DELUXE New Gloss Acrylic Trim Paint

4. SAFETY PRECAUTIONS

- Always keep paint out of reach of children.
- Ensure good ventilation during application and drying.
- If accidental contact with the skin should occur, wash area immediately with soap and water or a recognized cleaner.
- Eye protection approved to AS1337 must be worn while handling. In case of contact, immediately rinse the eyes with plenty of water and seek medical advice.
- Harmful if swallowed. Do not induce vomiting. Seek medical attention.
- Refer to Material Safety Data Sheet for complete information.

5. STORAGE AND HANDLING

- **Storage Parameters:** Store in original, unopened containers in a dry, well-ventilated area protected from freezing and direct sunlight. Keep ambient storage temperatures between 5°C and 35°C.
- **Shelf Life:** 24 months from manufacturing date when stored in unopened containers under recommended conditions. Subject to inspection thereafter.
- **Cleanup:** Clean equipment immediately after use with warm, soapy water.
- **Cleanup & Environment Protection:** Do not pour left over paint down the drain. Unwanted paint should be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collections. Empty paint containers should be left open in a well-ventilated area to dry out. When dry recycle containers via recycling programme.
- **Individual Packaging:** 1L, 2L, 4L, 10L & 15L

6. LEGAL DISCLAIMER & PRODUCT WARRANTY

Product Warranty

Deluxe Coatings warrants that this product, when applied in strict accordance with the instructions on the packaging and this Technical Data Sheet (TDS), will meet its published performance specifications. This warranty extends for up to 10 years for exterior applications and 12 years for interior applications from the date of purchase.

Limitations & Coverage

This warranty covers product replacement or refund of the purchase price only. It excludes failure resulting from inadequate surface preparation, structural movement, hydrostatic pressure, rising damp, improper thinning, or mechanical

damage. To the maximum extent permitted by law, Deluxe Coatings is not liable for labor, scaffolding, or consequential damages.

Technical Advice & Application Conditions

Information and recommendations in this document are provided in good faith based on laboratory testing and field experience. Because substrate conditions, application methods, and environmental factors are beyond our control, technical advice does not alter or expand the terms of the formal Product Warranty above.

Deluxe Coatings reserves the right to update product formulations and technical data without prior notice. Always ensure you are referencing the most current TDS available on the official Deluxe Coatings portal.

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