

BREAK-THROUGH! INTERIOR/EXTERIOR SATIN WATER- BORNE ACRYLIC V51-41XC

Water based product, Satin finish



Technical Specifications (21°C (70°F))

Solids by Volume* – 40% (+/- 2%)

Solids by Weight* – 55% (+/- 2%)

Volatile Organic Compounds (VOCs)*

According to ASTM D3960-05: 50 g/L

Canadian regulation: < 100 g/L

Colour

V51-410C White, V51-420C Medium, V51-430C Deep, V51-440C Ultra Deep, V51-90C Black

Gloss Level

Satin finish

• Gloss @ 60°: 20-25

Practical Coverage

375 - 400 sq. ft. per gallon

35 – 37 sq. per sq. m/3.78 L

(Actual coverage will vary depending on substrate and application method.)

Resin Type

• Acrylic

Viscosity*

Ready to use (100 - 110 Krebs Units)

Flammability

Flash Point Over 200°F (93°C)

Recommended Film Thickness*

Wet Film Thickness – 4 mils

Dry Film Thickness – 1.6 mils

Drying Time: Dry time @77°F (25°C); 50% relative humidity.

To Touch: 15 to 20 minutes

To Handle: 1 hour

Recoat: After 2 hours

For foot traffic: 12 hours

For Forklift Traffic: 36 hours

To Full Cure: 7 days

Drying time listed may vary depending on temperature, humidity, film, build, colour and air environment

*Product data calculated on V51-410C

Product Description

A versatile, ultra-durable water-borne acrylic, Break-Through!, is formulated to bond to some of the most difficult substrates including fiberglass, laminate, and many plastics. The interior/exterior satin finish offers very fast dry and outstanding early block resistance for increased productivity with less down time. Break- Through! provides hardness similar to or better than standard alkyds with a low VOC formula, but maintains flexibility to endure extreme bends and deformation without cracking and peeling.

Break-Through! is ideal for doors, windows, cabinets, shelving, hand rails, fixtures, trim, wood and concrete floors.

Features and Benefits

Feature	Benefit
Outstanding block resistance	Provides tack free film ideal for doors, windows, cabinets, shelving
Very good adhesion	Bonds to a wide variety of difficult substrates
Very good hardness	Durability and hardness similar or better than conventional alkyds
Quick dry	Dry to touch in 15-20 minutes; results in less down time
Excellent flow & leveling	Provides enamel smooth finish with less brush marks
Flexible	Withstands bends with no cracking or peeling
Resistant to household chemicals	Ideal for use in areas requiring frequent cleaning with mild household cleaners or light duty industrial cleaners
Low VOC and low odour	Meets the most stringent regulatory standards

General Surface Preparation

Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Treatment of cracks and seams is required to obtain the water-resistant protection of the building and to help prevent further cracking and deterioration. Methods of treatment depend upon the size of the crack. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding. Prime all bare and porous substrates with an appropriate primer.

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- Clean surfaces per ASTM Standard Practice D4258-83: Standard Practice for Surface Cleaning Concrete for Coating. Vacuum cleaning, water cleaning, detergent water wash, power wash cleaning, steam cleaning, hand tool and mechanical cleaning are acceptable cleaning methods. Remove efflorescence by pressure washing or cleaning with dilute muriatic acid (following manufacturer's instruction) or a solution of 1 part white vinegar to 4 parts water. Rinse thoroughly and allow to dry.
- Remove mildew by washing with 1 part chlorine bleach to 3 parts water. Before use, be sure to read and follow instructions and warnings on label.

Precaution: Dry sanding, flame cutting and/or welding of dry paint film will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Application

Stir thoroughly before use and occasionally when in use.

Application Equipment: Apply by spray, roller, and brush.

Airless Spray: Minimum requirements: Pressure 2000 psi, tip 0.009" – 0.013", best results are achieved with a fine finish tip. Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. High pressure injection of coatings into the skin by airless equipment may cause serious injury.

Brush: Polyester/Nylon Brush

Roller: 10-15mm nap synthetic roller cover

Thinning: No thinning required for airless or air-assisted Airless application. Reduce 5-10% with clean water for conventional spray, HVLP and brush applications.

Permissible temperatures during application:

Material:	50 to 90°F	10 to 32°C
Ambient:	50 to 90°F	10 to 32°C
Substrate:	50 to 90°F	10 to 32°C

ALUMINUM: A primer is required for proper adhesion.

Any coating applied directly to aluminum should be spot applied, allowed to cure overnight, and then evaluated for adhesion. If adhesion is good, the application may proceed. Prime with Dulux Gripper 60000 or Dulux WeatherGuard 1535 for proper adhesion.

CONCRETE: New concrete should cure for at least 30 days and preferably 90 days prior to priming and painting. The pH of the substrate must be less than 10 before painting. If pH is greater than 10, prime with an alkali resistant primer. Prime with Dulux WeatherGuard 1535 or Dulux Gripper 60000 or if chalky surfaces are evident use Perma-Crete Surface Sealer 4-808C or 4-809C.

CONCRETE/MASONRY BLOCK: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Prime with Perma-Crete Concrete block and masonry surfacer 4-100C.

FERROUS METAL: The surface must be cleaned thoroughly to remove any dust, rust, oil, and surface contaminants, and then primed. No primer is required for interior applications. For exterior applications prime with Dulux Metalclad Rust Preventative Coating 218490.

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FIBREGLASS: No primer needed; sanding or scuffing the surface is recommended. Topcoat should be spot applied as directed, allowed to cure overnight, and then evaluated for adhesion. If adhesion is good, the application may proceed.

GALVANIZED STEEL: A primer is required for proper adhesion. Caution must be used when selecting coatings for use on all galvanized metal surfaces. These substrates may have a factory-applied stabilizer, which is used to prevent white rusting during storage and shipping. Such stabilizers must be removed by either brush blasting, sanding or chemical treatment prior to priming. Prime with Dulux Gripper 60000 for proper adhesion.

GYPSON WALLBOARD/DRYWALL: Nails or screws should be countersunk, and they along with any indentations should be mudded flush with the surface, sanded smooth and cleaned to remove any dust, then prime prior to painting the substrate.

INTERIOR WOOD: Unpainted wood or wood in poor condition should be sanded smooth, wiped clean, and then primed. Any knots or resinous areas must be primed before painting. For non-bleeding or previously painted wood, no primer is required. Use Dulux Gripper 60000 for proper adhesion on unpainted wood.

LAMINATE: No primer needed; sanding or scuffing the surface is recommended. Topcoat should be spot applied as directed, allowed to cure overnight, and then evaluated for adhesion. If adhesion is good, the application may proceed.

PLASTER: Plaster or other alkaline surfaces should be allowed to cure for at least 30 days prior to priming with an alkali resistant primer. Primer with Dulux Gripper 60000 for proper adhesion.

VINYL & ARCHITECTURAL PLASTICS: Break-Through! is self-priming on this substrate. However, vinyl and similar architectural plastics may present potential adhesion problems. A primer may be required to promote proper adhesion. Consult the manufacturer's guidelines prior to painting. Primer and Topcoat should be spot applied, allowed to cure overnight, and then evaluated for adhesion. If adhesion is good, the application may proceed. Do not paint vinyl or plastic with a colour darker than the original to prevent potential warping due to heat absorption.

Limitations of Use

Apply only when air and surface temperatures are above 50°F (10°C) or above and when the air and surface temperatures will remain above 50°F (10°C) for the next 24 hours. Avoid exterior application late in the day when dew and condensation are likely to form or when rain is anticipated. Not recommended for exterior horizontal surfaces unless these surfaces can be protected from dew and rain for 7 days. Wait at least 7 days after painting before cleaning the surface with a non-abrasive, mild cleanser. Not recommended for polypropylene or polyethylene plastics, roofs, garage floors or concrete floors subject to hot tires, continuous water immersion environments, such as bathtubs, sinks, shower basins and pools. Do not use on large wood structures or the bodies of homes. Not recommended for very flexible substrates subject to abuse; such as canvas, nylon rope or rubber.

Storage and Transportation

Keep product cool and dry.

DO NOT FREEZE

Disposal

Consult your municipality about proper disposal procedures in accordance with the laws and respect the environment or give leftover paint to someone who could use it: a neighbour or friend, a recreational service or a non-profit organization. Do not pour leftover product down the drain.

Safety Measures

Read the Material Safety Data Sheet. Avoid contact with eyes. Keep out of reach of children. Use only in well ventilated areas.

FIRST AID TREATMENT: If in contact with eyes, rinse thoroughly with clear water. If swallowed, do not induce vomiting. Call poison centre or physician immediately.