

[TECHNICAL BULLETIN]

INTERIOR/EXTERIOR PROTECTIVE AND DECORATIVE COATINGS

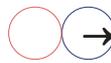
LOW ODOUR, HIGH SOLIDS ENAMEL WITH OUTSTANDING MAR RESISTANCE, OPACITY, FLOW AND LEVELING.

Satin Enamel



PRODUCT TYPE

Synthetic Alkid Resin



DESCRIPTION

SATIN ENAMEL is a high solids maintenance enamel that provides a durable satin finish for both exterior and interior surfaces.

High Opacity

SATIN ENAMEL is a premium enamel that offers dry hiding power far in excess of many of the commercially available enamels. Its strong, dry film hide is achieved with specially surface treated opacifiers used at maximum concentrations during manufacture. The products outstanding opacity, allows for a single coat applications to be achieved on many substrates that can substantially reduce both material and labour costs.

Low Odour

Unlike conventional enamels SATIN ENAMEL has a unique lemon scented odour which is the result of Astec's research and development of low V.O.C. environmentally friendly products. To provide enamels of low toxicity, the normal levels of hydrocarbons that are required for the manufacture of alkyd based products must be reduced to a minimum. Through research and development Astec have been able to reduce the hydrocarbons by substitution with completely non toxic in organic solvents. These solvents are the by product of fruit acids that are completely natural and have proven to have no harmful side effects to humans. In addition SATIN ENAMEL is lead free which further enhances its user and environmental friendliness without compromise in any way to exterior performance and durability.

Astec Paints is a 100% Australian owned company committed to the research and development of technologically advanced coatings that provide premium durability against our harsh Australian conditions. Our coatings are manufactured with high regard for worker safety and environmental care and will provide you with absolute confidence in long term performance.





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DESCRIPTION

Mar Resistance

Generally, air dry enamels after initial application are mildly tacky until full cure takes place, which in most circumstances is about seven to ten days. The fully cured film of the enamel is hard, however, their resistance to marring is traditionally low. For example, when the human finger is run across a cured film of enamel the action of the finger across the surface will produce an irreversible micro scratch. Through constant development in this area Astec have achieved the incorporation of surface reactive chemistry that provides a high level of mar resistance. The product gives the impression of being extremely hard, not dissimilar to that of a polyurethane, without compromise to the products flexibility. The human finger can be run across a cured film of SATIN ENAMEL and even if extreme pressure is applied micro scratching does not occur. Ultimately this resistance to micro scratching aids the products resistance to dirt pick up and further assists, and most importantly, provides increased exterior durability by maintaining integral film strength through a higher resistance to abrasion from wind driven contaminants.

Flow and Leveling

Regardless of the quality of any commercially available enamel, if during application the product does not flow and level to a smooth uniform film, its aesthetics are hindered and its film strength and ultimately its durability is lower than optimum, especially on exterior substrates. Through the incorporation of specialty additives an optimum balance of flow, leveling and sag resistance is provided which is most important as a characteristic for high solids enamels, especially during brush application. SATIN ENAMEL is applied to the substrate and during its application and tipping off the unique surface tension of the wet film sees heavy brush marks almost instantly removed to leave a uniform wet film that will cure to an integrally strong and aesthetically pleasing dry film.

High Solids

Many commercially available enamels are only in the range of 45 to 50 % solids by weight, therefore, upto 50 to 55% of the wet film is lost through evaporation of low cost solvents. Therefore, to achieve a durable film with these enamels usually requires multiple coats, or unrealistic wet film builds, to achieve the dry film that is necessary for exterior film integrity. The use of low solids enamels



DESCRIPTION
High Solids

requires greater volumes of product and obviously incurs higher labour costs for any additional coats. High solids is achieved by either extending the high cost resins with cheap extenders or by increasing the products resin solids.

Astec SATIN ENAMEL Enamel is 64% solid by weight and has no low cost fillers to achieve its high solids. Although there is a cost penalty to achieve the high solid enamels without the use of the normal low cost fillers, the result is a product that leaves a high dry film deposit that is resin rich and therefore extremely durable. In most cases SATIN ENAMEL requires upto 30% less wet film application which saves on both labour and product costs.

PRINCIPAL USE

SATIN ENAMEL is manufactured principally for use in the maintenance, restoration and new construction industries on such applications as steel ballistrading and hand rails, timber doors, window frames, exterior facias and interior skirtings. Or any surface requiring greater impact resistance than can be provided by waterbased acrylics. Although SATIN ENAMEL can be used as a stand alone product in many cases the product will require sealers or primers beneath it to provide correct adhesion and or correct surface preparation techniques that are commonly necessary for some substrates prior to any product application.

COLOUR RANGE

Light to deep tone accents.

SUBSTRATE

Metal, timber concrete and fibro.

PREPARATION

Surface Preparation

All surfaces must be clean dry and free of contaminants. Remove dirt or dust and any grease with a household detergent. Scrape of any loose or flaking paint on existing painted surfaces then sand any remaining paint to a flat finish. Any existing well adhered but glossy paints that can not be sanded or have the gloss removed from the surface should be firstly



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PREPARATION Surface

cleaned down then have Astec Oil Based Undercoat applied prior to top-coating. Any existing paint that exhibits a complete lack of adhesion should be entirely removed for the best results, (except on asbestos sheeting). Wipe down with a damp cloth to remove any dust. Where it is not possible to completely remove all chalk or contaminants from the surface, apply Astec Rivett, which will bind the surface to a hard finish prior to painting. Rusted surfaces or nail heads should be treated with Astec Rus-traint, fill any imperfections with a suitable filler and spot prime or seal any bare surfaces with the appropriate Astec primer as detailed in the following sections.

New Timber Treat all nails with Astec Rus-traint allow to dry then fill all nail holes with a suitable wood filler. For optimum adhesion sand all dressed timber. For maximum performance prime all timber with Astec Acrylic Primer Undercoat, All Purpose Acrylic Undercoat or Quick Dry Oil Based Undercoat and then sand smooth. Apply two coats of SATIN ENAMEL.

Window Painting Use sparingly on all contact areas, open and close windows within 30 minutes and there after at 4 hour intervals over the following 24 hours.

New Steel and Wrought Iron Remove any excessive rust with a scraper, wire brush or by sanding. Wipe clean and remove any grease with Astec All Purpose Thinners. Apply Astec Rus-traint in accordance with the application details on its can. Apply two coats of SATIN ENAMEL.

Galvanised Iron, Zincalume New unpainted: Degrease thoroughly with Astec Wash-n-Etch, apply one coat of Astec B-16 Anti-corrosive primer then two coats of Astec SATIN ENAMEL. Previously painted: Remove all loose, chalked and flaky paint. Treat any rust with Astec Rus-traint in accordance with the application details on its can. Apply two coats of Astec SATIN ENAMEL.



Brick and Masonry No primer required on surfaces that are in a sound condition, (that are not weathered to a point where the surface is friable or continues to powder ever after a wash down). If the surface is unsound apply Astec Rivett which will bind a soft wall to a hard finish. Walls in sound condition, wash down the surface with water and a stiff brush to remove all contaminants, fill all holes with a grouting cement. If the surface is mould covered wash down with Sodium Hypochlorite, (Chlorine), or a household bleach to remove the mould then apply Astec Barrier, an under film mould retardant.

Apply two coats of Astec SATIN ENAMEL.

P.V.C. Sand the entire surface and wipe down with Astec all Purpose thinners prior to any coating application.

Fibro Cement New unpainted: Wash down the surface with a stiff brush and water to remove any contaminants. Weathered asbestos sheeting: Do not sand or scrub the surface as the dust can be harmful to your health. Pick off any large clumps of mould or debris, apply two coats of Astec Barrier which will kill any mould growth, apply Astec Rivett in multiple coats until all contaminants are securely locked to provide a hard bound surface, (refer to Astec Performance Spec No. 8712). Apply two coats of Astec SATIN ENAMEL.

NOTE: Do not apply Astec SATIN ENAMEL to surfaces that have had wax or silicone based materials previously applied.

APPLICATION

The best results will be obtained by brush or spray application methods.

1. For spray applications SATIN ENAMEL can be thinned between 10% and 40% dependant upon the wet film required. Conventional air or airless spray equipment is suitable for SATIN ENAMEL application, when using airless spray equipment use a 515 to 518 tip.



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APPLICATION

2. For brush application SATIN ENAMEL should be used straight from the can. However, Mineral Turpentine can be added when evaporation from an open can during use causes an increase in viscosity. Small amounts should be stirred in carefully so as not to over thin the product.

PRECAUTIONS FOR USE

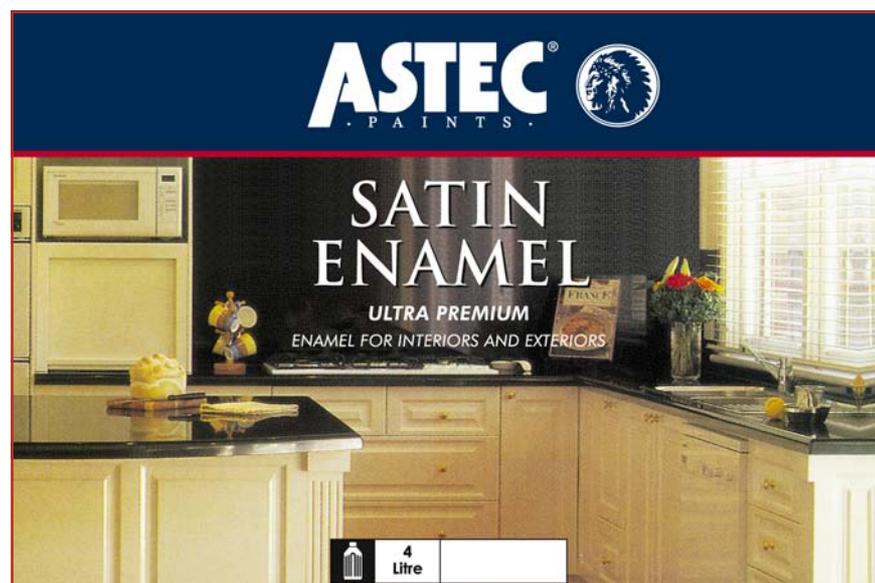
Avoid contact with the skin and eyes, and avoid breathing the vapour, spray mist or dust. Wear suitable protective clothing including rubber or PVC gloves and safety goggles. An organic vapour cartridge respirator should be worn.

LIMITATIONS

Highly flammable. Avoid heat, sparks, flame and contact with oxidising agents. Equipment should be earthed.

PACKAGING

4 and 1 Litre open top drum.

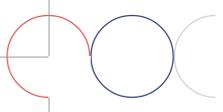




PRODUCT DATA



■	Gloss level	Semi Gloss
■	Drying Time at 25°C	2 to 4 hrs touch dry, 12 hrs dry
■	Recommended thinners	Mineral Turpentine
■	Recoat time at 25°C	8 hrs
■	Abrasion resistance	Good
■	Solvent resistance	Splash (fair)
■	UN number	1263
■	Dangerous Goods Class [Subsidiary Risk]	3.1
■	Hazchem Code	3YE
■	Poisons Schedule	5
■	Theoretical spread rate [@ 30 microns dry]	18 m ² per ltr
■	Volume Solids	54% Vol
■	Specific gravity	1.377
■	Solid content	64% W/W
■	P.V.C.	40% W/W



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