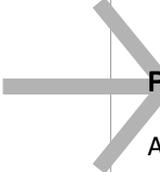


[TECHNICAL BULLETIN]

ASTEC ANTI-GRAFFITI CLEAR COATING
POLYURETHANE SILICONE MODIFIED



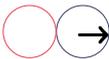
PRODUCT TYPE

Aliphatic 2 Pack Polyurethane Anti-graffiti coating.

PRODUCT DESCRIPTION

Astec Sumolac is a two component polyurethane clear finish that can be applied to most construction materials to achieve a surface that is guaranteed resistant to most graffiti. The product is a speciality formula that has been heavily modified to repel and make the removal of graffiti a simple, safe and repeatable process. Most importantly, the product's performance does not degrade even after repeated attacks of graffiti and it's removal.

Sumolac is the most advanced anti-graffiti coating available and is the only choice when long-term permanent protection is required. The cured film is a tough, flexible and has very strong surface adhesion and gloss, that does not degrade even when exposed to strong cleaning solvents during the removal of stubborn graffiti. Sumolac has excellent U.V. stability and provides a full gloss finish that is impervious to most spray pack paints and marker pens.



PRINCIPAL USE

Transport industries	Toilet blocks	Concrete Block
Construction industry	Bus shelters	Tilt up concrete
Commercial buildings	Buses	Galv metal
Rail Cars	Fences	Fibro Cement.

FEATURES & BENEFITS

- Permanent anti-graffiti protection
- Low V.O.C. removal of graffiti.
- Simple tape removal of graffiti.
- Water removal of graffiti.
- Low skill level required for graffiti removal.



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.



(TECHNICAL BULLETIN)

ASTEC ANTI-GRAFFITI CLEAR COATING

SURFACE COMPATIBILITY

Sumolac can be applied to most coating and construction materials. However, as Sumolac is a solvent based coating and may be applied over existing water based products, the surface to be coated should be first tested for surface compatibility with Sumolac prior to full area application. A small amount of product should be applied to an inconspicuous section of the substrate, if no wrinkling of the existing paint occurs within 30 minutes, application of Sumolac is suitable.

SURFACE PREPARATION

All surfaces must be clean, dry and free of contaminants such as grease, oils and silicones. Remove dirt or dust and any grease with a household detergent or sugar soap. Sand any high gloss surfaces to a flat finish. Do not apply to any existing paint that exhibits a complete lack of adhesion. Apply two coats Sumolac.

APPLICATION

Do not apply Sumolac in direct sunlight or during the hottest part of the day. Application is best carried out in early morning.

Apply Sumolac at recommended coverage rates, excessively thick films do not provide any better protection.

Sumolac can be applied by brush, spray or roller. Do not apply Sumolac with used brushes or roller covers. Rollers that are contaminated with old paints could effect the products final performance.

Only apply Sumolac with new rollers or brushes and absolutely clean spray equipment.

Any surfaces that have been freshly painted with water based paints should be allowed to fully cure for at least seven days in direct sun prior to the application of Sumolac.

Sumolac can be applied in one single uniform coat however, it is preferred that the product be applied in two thin coats to ensure no areas are missed and that full anti graffiti protection is achieved.

Important: two coat application.

The second coat must be applied within the re-coat window of 1 hr to 6 hrs max. Second coats applied outside the re-coat window will bead and run off the first coat and will require the entire surface to be sanded free of gloss prior to the second coat.



(TECHNICAL BULLETIN)

ASTECC ANTI-GRAFFITI CLEAR COATING

APPLICATION

Important: application to textured surfaces.

Textured surfaces. Any sharp textured profiles may require additional coats of Sumolac to ensure that the sharp profile of the texture is completely covered and does not protrude through the film of Sumolac.

Roller application: Use a short nap synthetic cover, do not use lambs wool or foam covers.

Brush application: Use any hair brush.

Spray application: Use hand held or airless spray equipment, but remember that the product will start to set hard in the equipment within 60 minutes.

NOTE: do not use high cost equipment as Sumolac is difficult to completely remove from equipment and in most cases the brushes and rollers are discarded at the end of application.

MIXING RATIO	2 Parts 1 Part	component A component B
POT LIFE	60 Min @ 25°C	
RE-COAT WINDOW	Minimum 1 hr	Maximum 6 hrs

MIXING

The product is mixed on site at a ratio of 2 to 1 just prior to application and has a pot life of approximately 60 minutes at 25°C. Pour the entire content of Part A into a clean dry container. Ensure the container has enough capacity to allow for the addition of the Part A and the Part B. Using a low speed drill mixer, add Part B to the Part A while stirring. Thoroughly mix the materials for 3 minutes.



MIXING

NOTE: Only mix the required amount of materials that will be used in a 55 min period. Care must be taken to ensure that the product is not air entrained during mixing.

GRAFFITI REMOVAL (Spray paint)

Removal of graffiti is carried out in the following order.

- Use masking tape to remove paint by pressing the tape firmly into the surface and then peeling back.
- Use a ball of masking tape as a blotter to remove any remaining fine spray.
- Use hot water and detergent to remove any remaining spots with a piece of towelling material.
- Use a garden hose and nail brush to remove some types of paint.
- Use straight high pressure water cleaning for the removal of some paints. Some stubborn graffiti will require the use of stronger cleaning agents for its removal.
- Solvent selection should be done in a step wise manner use the weakest solvent first and then gradually increasing strength until the graffiti is removed. EG; Sol-clean 1 first, then Sol-clean 5 last.

Increasing solvent strength slowly provides the best possible service life of the product is achieved .

GRAFFITI REMOVAL (Marker pens)

Sumolac is resistant to most marker pens however, some marker pens may leave slight "ghosting" To remove marker pen from the surface, dampen a cloth with methylated spirit, hold over the area for 5 to 10 seconds, then wipe off. Some marker pens may require several repeats of this process.

IMPORTANT

Do not under any circumstances use a wire brush to remove the graffiti, the harsh nature of the wire bristles may damage the coating surface and reduce the anti-graffiti properties.



PACKAGING Part A 4 ltr and 20 ltr
 Part B 2 ltr and 10 ltr

WASH UP

All equipment must be thoroughly washed with Astec All Purpose Thinners prior to the system set.

COVERAGE

Coverage will be approximately 6-8 m² per ltr dependant on surface porosity and applicator technique.

PRODUCT DATA

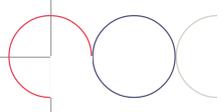
Gloss level	Full Gloss
Drying Time at 25°C	60 minutes
Re-coat window	Min 1 hr Max 6 hrs
Recommended thinners	Do not thin
Wash up thinners	Astec All Purpose Thinners
Abrasion resistance	Excellent
Solvent resistance	Excellent
UN number	1263
Dangerous Goods Class	
Subsidiary Risk	3.1
Hazchem Code	3YE
Poisons Schedule	5
Theoretical spread rate at required D.F.T (85 microns Dry)	6.0 m ² per ltr
Theoretical spread rate at 30 microns dry	17 m ² per ltr
Specific gravity	1.032
Solid content	51% Vol

LIMITATIONS

Sumolac is an accelerated moisture cure polyurethane and therefore should not be applied to wet surfaces or during wet or inclement weather.

SAFETY / DISPOSALS

Avoid contact with skin and eyes, always use a respirator during spray applications. Discard any waste as solid fill in accordance with local regulatory authority.



The technical data furnished herein is based upon data believed by Astec Paints to be true and accurate at the time of writing, however, no guarantee of accuracy is given or implied and is subject to change without notice.

It is given in good faith for the assistance of users. No legal warranty expressed or implied is made as to its accuracy, completeness or otherwise.

Every person dealing with this material herein does so at their own risk absolutely and must make independent determinations of suitability and completeness from all sources to ensure the products proper use.

We have no control over the condition under which these products are stored, handled or used, therefore our recommendations must not be regarded as a mounting to legal warranty or as involving any liability on us.



Astec Paints Australia Pty. Ltd.
24 Pinn Street St. Marys
South Australia 5042

Telephone +61 08 8277 6067
Facsimile +61 08 8277 6291

Your nearest Astec Paints distributor is:

Revised Edition May, 2002

Astec Paints Distributors, Australia:

South Australia

→ St Marys, Head Office and
Manufacture

New South Wales

→ St Peters

Victoria

→ Melbourne

Queensland

→ Benowa

→ Acacia Ridge

Darwin

Astec Paints Distributors, International:

China

Japan

→ Tokyo

→ Okinawa

Singapore

Taiwan

United Kingdom