

## ENVIROSHIELD G - PARTS A & B

### GRAFFITI PROTECTION

#### MATERIAL & FUNCTION

ENVIROSHIELD G is a purpose built, clear or coloured UV stable, cross-linked, acrylic urethane system for protection of building surfaces against graffiti defacement. ENVIROSHIELD G has been in use in Australia for the last 15 years and has been continually refined in keeping with changes in technology. ENVIROSHIELD G is warranted to provide complete graffiti protection for 10 years.

#### USES

ENVIROSHIELD G forms a clear, long lasting, ultraviolet-resistant film unaffected by weather or any of the solvents commonly used in aerosol paints, leather dyes, texta pens and ballpoint pens. It is almost impossible to make a permanent mark on a treated surface of ENVIROSHIELD G, except by deep scratching or gouging. ENVIROSHIELD G properly applied will provide protection for 10 years before recoating becomes necessary. AMDEL Laboratories as part of a national programme to establish the effectiveness of graffiti protective coatings tested ENVIROSHIELD G and the result placed ENVIROSHIELD G at the top of all products submitted for testing. ENVIROSHIELD G's unique chemical composition allows moisture vapour contained in the building substrate to be expelled into the atmosphere.

ENVIROSHIELD G is ideal for protection of masonry, brickwork, metal, terracotta, wood, painted surfaces and furniture against defacement in schools, public buildings, toilets, and sports pavilions. ENVIROSHIELD G finds major application where continuous heavy defacement is a problem, such as public toilet walls and doors, bus shelters, lifts and pedestrian underpasses.

#### APPLICATION

Application is by ENVIROSHIELD approved applicators. ENVIROSHIELD G should be applied preferably using an airless spray with 5 - 12 thousand tip size to firm, clean and dry surfaces only. ENVIROSHIELD G will respond adversely to the presence of contaminants or moisture; the general recommendations for the preparation of substrates prior to coating must be adhered to. ENVIROSHIELD G may be applied by brush or airless spray equipment at a spread rate of 6 - 8 m<sup>2</sup> per litre per coat 40 microns dryfilm build per coat. On sound non-absorbent surfaces the spread rate can be as high as 12 m<sup>2</sup>. The solvents used in ENVIROSHIELD G may affect some types of paint films if brushed on. Spraying gives much more latitude but check trial section first.

Two coats should be applied 24 hours apart. Care must be taken to ensure correct mixing and application is carried out. ENVIROSHIELD G should not be applied if rain is likely within 4 hours of application. Klen representatives are available to assist in application techniques. Substrata MUST be fully saturated on application or protection will be less than optimum. On application ENVIROSHIELD G may give an apparent darkening on certain surfaces by pore-filling effect similar to wetting. A noticeable gloss may result on some substrates. Try a small test area first to check if acceptable.

Applicators must wear solvent resistant overalls, PVC or rubber gloves and type A organic vapour respirator.

#### CLEANING

Cleaning of equipment must be with Ethyl Acetate only, at least 3 litres needs to be run through spraying equipment to ensure complete removal of residue.

#### REMOVAL OF DEFACEMENT

Removal of graffiti should be done before the stain hardens fully, if possible and in any event, the sooner the better. See your Klen Representative for further information.

Technical Bulletin

## TECHNICAL DATA

Appearance	- clear liquid
Chemical Base	- Volatiles 70% (Volume)
Specific Gravity	- 1.07 ± 0.05 kg/L
Surface Finish	- High gloss or coloured (low sheen can be supplied in minimum batch quantities)
UV Resistance	- No deterioration after 10 years field-tests.
Adhesion	- 3.5Mpa on concrete test panels
Touch Dry	- 2 hours
Recoat Times	- 24 hours (under certain conditions re-coating can be undertaken on the same day)
Cure	- 24 hours
Flashpoint	- 23°C
Temperature Application Ranges:	10°C - 37°C ambient

Chemical resistance to:	Immersion	Splash spillage	Fumes
<b>Acids (organic)</b>			
Formic	-	-	X
Glacial Acetic	X	X	X
<b>Acids (inorganic)</b>	X	X	X
Hydrochloric 30%	X	X	X
Sulphuric 51%	X	X	X
<b>Alkalis</b>	-	X	X
Ammonia Hydroxide 25%	X	X	X
Sodium Hydroxide 50%	X	X	X
<b>Solvents</b>	-	X	X
Ketones	-	X	X
Esters	-	X	X
JP - 4 & JP - 5 Fuels	X	X	X
Salt Water	X	X	X
Jet Fuels	X	X	X
Aviation Gasoline	X	X	X
<b>Oils</b>			
Synthetic Lubricating & Hydraulic	X	X	X
Skydrol 7000	X	X	X
Mineral Oil	X	X	X
Animal Oils & Fats	X	X	X

X = passes - = not recommended

[Representative list only - all test chemicals used are commercial (technical) grade]

## PACKAGING

11.25 litre packs, comprising 10 litres Part A & 1.25 litres Part B

## IMPORTANT NOTICE TO CUSTOMER

Since the use of this product is beyond the control of either seller or manufacturer, their only obligation shall be to replace any quantity of product which is proven defective. They cannot assume any risk or liability in excess of the purchase price of the product itself, which does not include labour or any consequential damages resulting from the use of this product. Determining the suitability of this product for any intended use shall be solely the responsibility of the user. **ALWAYS TEST FIRST.**