

GP101 Guidance Note

COO-VAR GP101 Anti-Graffiti System

A clear surface coating, available in matt or gloss finish, offering excellent long term protection against graffiti and poster vandalism.

Coo-Var GP101 can be used on a wide range of clean prepared rough or smooth surfaces, whilst continuing to retain the appearance and aesthetics of the original surface. As well as preventing permanent marking by graffiti, which can easily be cleaned using water or mild cleansing agents, GP101 also makes Fly Posters easy to remove. Posters just peel off and graffiti can be removed quickly and easily with water or water with mild detergent (DO NOT USE ANYTHING STRONGER).

Preparation: Remove existing graffiti with dedicated graffiti removal agents where required. Ensure that the substrate is free of any residue from graffiti removal agents.

The surface must be clean, sound and free of any dust, dirt, oil and grease. If necessary wash substrate with high pressure water and allow to dry.

Adhesion should be checked over all surfaces as follows to ensure suitability of GP101: -

Dab GP101 with a small rag onto a small area of substrate (5-10cm² is sufficient) and allow to dry overnight. For signage and murals, after sufficient dry time has elapsed, rub firmly across the test area with finger for loss of adhesion. For other painted surfaces, rub firmly with a rag soaked with White spirit. Then rub the surface by hand. If there is no evidence of GP101 peeling off the surface is compatible.

Stir well before use and use manageable quantities; Pour a small quantity into roller tray or spray unit as required. Then reseal container immediately. Depending on ambient conditions GP101 has a pot life of approximately two hours when exposed to the elements.

Application Methods two methods of application are recommended:

Roller Application

Roller application is the preferred method of application for areas less than 500 square metres. Stir GP101 and do not thin; avoid contact with moisture. A roller recommended for Acrylic or flat paint application is highly recommended for best results.

Special Notes

1. Keep your equipment clean when applying: White Spirit should be used. This will avoid contaminating the remaining GP101 and help in the final clean up.
2. Avoid using a paint brush when applying the Anti-graffiti Sealer Coat to surfaces subjected to efflorescence (i.e. salt deposits on cement substrates).

Efflorescence can be difficult to detect on light coloured surfaces and will produce a milky effect on a clear finish if disturbed during application (i.e. by shear action of using a brush). Roller or spray application is recommended where efflorescence may be present.

Spray Application

Due to the time and effort required to prepare and wash equipment, spray is not recommended for areas less than 500 square metres.

Where application is employed, care must be taken to achieve even distribution of the protective coating and hence, ensure good graffiti protection. Sections with lighter coverage will be protected to a much less extent.

Coo-Var GP101 is a moisture curing coating and will cure rapidly when moisture is present, and hence should be treated as a two pack system.

Clean and flush out equipment with White Spirit to purge any water from the system before introducing GP101. Flush equipment frequently with White Spirit to ensure Coo-Var GP101 does not clog or setup in the spray lines.

Stir well before use and wear a protective mask at all times during application. Avoid overspray as this can cause damage to surrounding property. Flush through and clean equipment thoroughly with clean White Spirit.

Drying Times, Curing Schedule

Cleaning time 1 – 2 hours @ 25°C Hard dry 2 ¼hours Re-coat time 4 – 6 hours

Coverage Guide 8 – 10 m² per litre per coat

Brushwash Thinners: Do not thin Coo-Var GP101 but use White Spirit as cleanup.

Clean Up

All equipment must be cleaned thoroughly with White Spirit immediately after use. Do not clean with water. With spray application it will be necessary to flush equipment with White Spirit regularly during application to avoid setup in the spray lines and to assist with wash-up.

Safety Instructions

- **Provide adequate ventilation during application.**
- Prolonged skin contact may cause irritation to some individuals.
- Wash soiled clothing and skin with soap and water before material dries.

- **Uncured Coo-Var GP101 may cause irritation to the eyes.**
- In case of contact, flush eyes with water for 15 minutes.
- If irritation persists, seek medical attention.

For more information on health and safety please consult our Material Safety Data Sheet.

COO-VAR GP101

COO-VAR GP101 APPLICATION GUIDE

Coo-Var GP101 is suitable for use on most common building substrates. However, there are some substrates where Coo-Var GP101 is not recommended: refer to the table below for suitability on a range of common building substrates.

Note where it is necessary to use Coo-Var Anti-graffiti Sealer Coat prior to application of Coo-Var GP101.

Some surfaces will require an adhesion test and/or a test to check for softening or blistering due to the solvents in the Coo-Var GP101. If in any doubt always consult the manufacturer **before** application of Coo-Var GP101.

MATERIAL	SUITABILITY	COMMENTS
Brickwork	Suitable - Use appropriate sealer	Ideally suited. Depending on the porosity of the brick substrate may darken on application of Coo-Var GP101. To prevent darkening and retain the original colour of the brick, seal with one coat of Coo-Var Anti-graffiti Sealer Coat prior to application of Coo-Var GP101.
Concrete/Render Fibro Cement	Suitable - Use appropriate sealer	Ideally suited. Concrete, Render, Fibro-Cement are porous substrates that will darken on application of Coo-Var GP101. To prevent darkening seal with one coat of Coo-Var Anti-graffiti Sealer Coat prior to application of Coo-Var GP101.
Sandstone	Suitable - Use appropriate sealer	Suitable, however where the stone colour is important, it is recommended that surface is sealed with one coat of Coo-Var Anti-graffiti Sealer Coat to retain the original natural features and to minimise darkening of the substrate.
Textured Masonry Finishes(cement or plaster based)	Suitable over appropriate basecoat/sealer	Suitable for textured finishes when applied over the appropriate base coat or sealer. Coo-Var GP101 allows graffiti to be removed using non-aggressive cleaning agents/methods that will not damage the original textured surface.
New Gloss Paint	Generally Suitable – Test first. Check compatibility	Most gloss paints can be over-coated with Coo-Var GP101 provided the gloss paint has had 4 to 5 days to fully harden. Do a test area to check that the solvent in Coo-Var GP101 does not react with the surface.
Pliolite Masonry Coatings & Products	Generally Suitable – Test first. Check compatibility	Most Pliolite masonry paints can be over-coated with Coo-Var GP101 provided the masonry paint has had 4 to 5 days to fully harden. Do a test area to check that the solvent in Coo-Var GP101 does not react with the surface.

MATERIAL	SUITABILITY	COMMENTS
Plastics and Polycarbonates	Generally Suitable – Test first. Check compatibility	Most plastics do not present problems but it is necessary to do a test area to check that the solvent in Coo-Var GP101 does not react with the surface.
Uncoated Metals	Test for adhesion	Generally recommended for most metals including Galvanised Steel, Aluminium, Bronze, etc. However adhesion tests should always be carried out prior to application of Coo-Var GP101 to determine suitability. Refer to Adhesion Test Method – Coo-Var GP101
Signage and Murals	Test for adhesion. Check colours do not “bleed”	Coo-Var GP101 does not adhere well to some plastics used for signs and some painted surfaces. Adhesion should be checked on all signage or mural surfaces. Refer to Adhesion Test – Method Coo-Var GP101. Test murals to ensure colours do not “bleed”.
Timber (CCA Treated)	NOT Suitable	CCA pressure treated timber is not a stable substrate and can shrink considerably in all dimensions after treatment. This shrinkage which can be expected to cause failure of the coating if Coo-Var GP101 has been applied.
Timber (Untreated or Painted)	NOT suitable	Not recommended on untreated or pre-painted timber surfaces as timber is an unstable substrate and generally requires repainting more frequently than stable substrates. Coo-Var GP101 is a clear coating and does not protect untreated timber against the effects of ultra violet (UV) sunlight.
Painted Surfaces (cleaned with aggressive cleaning agents)	NOT suitable	Many decorative paints will soften and stain when aggressive cleaning agents are used to remove graffiti. Coo-Var GP101 will NOT protect against staining and may lose adhesion to some paints if inappropriate cleaning agents are used.

Application Guide

Coo-Var GP101 is a unique protective coating system that must be applied strictly in accordance with the manufacturer’s guidelines and directions.

Please ensure that all directions are read and understood prior to application of the product. Failure to observe these guidelines and directions may downgrade performance and appearance of the substrate.

SUITABLE SUBSTRATES & SYSTEM RECOMMENDATIONS

If there is any doubt about the suitability of the substrate then contact Coo-Var Technical services on 01482 328053.

Porous surfaces such as concrete, render and textured finishes, etc

Surfaces should be sealed with one coat of Coo-Var Anti-graffiti Sealer Coat. Allow 24 hours for Anti-graffiti Sealer Coat to dry thoroughly, and then apply two coats of Coo-Var GP101 at 8–10 square metres/litre per coat allowing a minimum of four hours between coats.

Natural Surfaces such as Sandstone, etc.

Surface should be sealed with one coat of Coo-Var Anti-graffiti Sealer Coat to retain original colour features and to avoid darkening of the substrate. Allow 24 hours to dry thoroughly; then apply two coats of Coo-Var GP101 at 8-10 square metres/litre per coat allowing a minimum of four hours between coats.

Porous Brickwork

If bricks are porous, apply one coat of Coo-Var Anti-graffiti Sealer Coat to reduce darkening and retain the original colour of the bricks. Allow 24 hours to dry thoroughly; then apply two coats of Coo-Var GP101 at 8-10 square metres/litre per coat allowing a minimum of four hours between coats.

Non-Porous Brickwork and other Non-Porous Masonry

Apply two coats of Coo-Var GP101 at 8-10 square metres/litre per coat allowing a minimum of four hours between coats.

Other Non-Porous Surfaces

A test area should first be tried to check for compatibility and adhesion.

For smooth, non-porous surfaces, apply two coats of Coo-Var GP101 at 8-10 square metres/litre per coat allowing a minimum of four hours between coats. For profiled or rough surfaces, refer to the manufacturer's specification for coverage rates.

For all other surfaces check with Coo-Var Technical Services on 01482 328053 before using Coo-Var GP101.

Coo-Var Anti-graffiti Sealer Coat

A clear 100% acrylic sealer dispersed in water and free of volatile organic solvents. Low odour, non-flammable and low toxicity. Excellent water and mildew resistance on porous surfaces.

Uses

Used as a transparent sealer for porous surfaces prior to application Coo-Var GP101. Can be used to minimise the darkening of sandstone and other natural stone products. Will also minimise the ingress of water which could lead to mould and mildew discolouration.

Surface Preparation

All surfaces should be free of dust, soil and grease and preferable vacuum cleaned.

Minimum drying temperature is 8°C. Anti-Graffiti Sealer Coat should NOT be applied if the surface temperature or the ambient temperature is likely to fall below this temperature during the drying period.

Wash Up: clean equipment with warm water as soon as possible after use.

Curing Properties

Cure rate will depend on conditions but typically, touch dry is achieved within 30 minutes at 25°C/70% RH and can be recoated with Coo-Var Anti-Graffiti & Flyposting Protection System after 24 hours.