

MANOR

PRODUCT DATA SHEET



HI-BUILD VINYL WHEN USED AS A CLADDING PAINT (also see the HI-BUILD VINYL GENERAL DATASHEET)

INTENDED USE

DECORATION OF BUILDINGS

A rapid drying high performance 'one coat' anti-corrosive self priming low sheen topcoat, giving a tough flexible film with remarkable adhesion to many difficult substrates.

VOC Classification 2004/42 CatA(i)= 500 g/litre

This data sheet explains how to test whether Hi-Build Vinyl can be used to paint cladding and how to use the product.

TESTING THE SUBSTRATE

There are several different types of plastic coated steel cladding. These can vary significantly in the way they accept overpainting. While Hi-Build Vinyl has been found to perform excellently on a wide selection of cladding, no single paint system is suitable for every type of cladding. Therefore, an application / adhesion trial on a small test area is essential to verify the suitability of painting each project. This process takes time and must be planned well in advance of the intended maintenance.

Testing the substrate

(i) Purchase a tin of Hi-Build Vinyl

Buy a 5L of the Hi-Build Vinyl in the colour required for the job. It is possible to use a stock 1L in white but if the accuracy of the colour match is critical this should be checked during testing.

IT IS IMCUMBENT ON THE SPECIFIER/END USER TO ASSESS THE SUITABILITY OF HI BUILD VINYL FOR THE SUBSTRATE IN QUESTION.

(ii) Select Test Area(s)

Select several test areas, particularly test around vents and exposed surfaces especially where dirt, oil, grease or chemicals may have attacked the existing coating or where the existing coating has failed.

(iii) Prepare test area

Thoroughly clean with hot water/steam power wash and alkaline degreaser to remove all traces of dirt and debris, small areas can be done by thorough hand cleaning. Apply the paint by brush.

(iv) Leave overnight then check for tackiness

If the film remains tacky and soft it is likely that the cladding has a high plasticizer content. Repeat the test again but this time after cleaning wipe the area with Methylated Spirits to remove any surface plasticizer, allow to dry and then apply the test paint. If this fails then another paint system will be required, contact Manor Coating Systems Technical Department.

(v) Leave for 7 days then check for tackiness

As for (iv) above

(vi) After 7 days and if there is no significant tackiness check the adhesion Using a sharp Stanley knife (or similar) make a series of 5 parallel cuts about 3mm apart and 20 mm long. Repeat these cuts at a 90° angle to make a Portcullis or grid pattern. Apply clear adhesive tape over the cut marks, press down firmly, leave for 2 minutes and pull off sharply holding the edge of the tape. Examine the back of the tape. If no paint has been removed surface preparation and painting can proceed. If significant amounts of paint are removed, repeat test in another area and consult Manor Coating Systems Technical Department, it is likely that an alternative system will be required.

(vii) Verify the accuracy of the colour match
Verify the accuracy of the colour match to panels being matched to.

SUITABLE SUBSTRATES AND PREPARATION

Plastic coated steel that has been tested for product suitability as described above.

Surface Cleaning

Thoroughly clean with hot water/steam power wash and alkaline degreaser to remove all traces of dirt, dust and debris. Small areas can be done by thorough hand cleaning. Lightly abrade the surface with a Green 3M Scotchbrite Pad. If during testing it has been necessary to wipe the surface with Methylated Spirits this will also have to be done on the main painting job.

Patch Repair

Treat any areas where the original coating has failed, remove any rust by abrasion and remove any flaking plastic coating back to a firm edge. Spot prime with 2 generous coats of Hi-Build Vinyl leave 2 hours between coats and leave to dry overnight. Feather back the edges of the repair with wet and dry paper to prevent a lip showing.

AVAILABILITY

Extensive range of BS, RAL and house colours in 5 and 20 litre containers

PRODUCT INFORMATION

See main data sheet

APPLICATION

Airless Spray (cold) Ensure that release of spray dust and overspray is prevented by sheeting up or similar.
A typical set up for airless spray application would be a minimum working pressure of 186 bar (2800 lbs/sq in) with a tip size of 0.33-0.48 mm (13-19 thou) and a spray angle of 65-80°
Do not thin
Do not exceed recommended film thicknesses particularly when mating up edges

Conventional Spray Not recommended

Brush / Roller Apply one coat of Hi-Build Vinyl, allow to dry overnight. When applying a second coat by brush or roller, take care, not to overbrush the product, to ensure there is no pick up of the first coat. Apply liberally, lay it on and leave it. Application by short pile roller is recommended when applying to larger flat areas.

Film thicknesses Airless Spray one coat 170 microns wet and 75 microns dry
Brush / roller: 2 coats each coat 85 microns wet giving 75 microns dry in total

DRYING AND RE-COATING

Drying times See main data sheet

Environmental conditions The air temperature should be at least 5C with a surface temperature 3 C above the dew point and the relative humidity below 90% thus ensuring that the surface is dry and that condensation will not occur during application or

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drying.

The drying times will be significantly extended in cold, damp conditions.

Do not apply to external surfaces if the forecast is for rain to fall within the next 24 hours as the surface may water mark during curing.

In exposed windy conditions a minimum air temperature of 8 C is recommended.

Overcoating / repainting An additional coat of Hi-Build Vinyl may be applied if required.

Shelf life Store in cool, dry conditions, typically 5-25 C. After a period of storage the product should be thoroughly stirred. Usable life is 2 years from the date of manufacture in unopened containers.

Safety Precautions Refer to the Manor Safety Data Sheet

Limitations The information given in this data sheet is based on experience and is accurate to the best of our knowledge. No guarantee should be implied however, since the conditions of use are beyond our control. This data sheet does not constitute a specification.

A Painting Guide can be accessed via our website which provides additional information on paint and painting and definitions of terminology.

In case of doubt as to the suitability of the product please consult our Technical Department. If you are advised that the paint can be used in a manner not specified on this datasheet our Technical Department will confirm this to you in writing. Do not use paint prior to receiving this confirmation.

References to other primers, topcoats, cleaners and thinners are to the Manor Product of that name only.

This data sheet supersedes all previous issues.