

Data sheet A125

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Hygenacoat

Introduction

Hygenacoat is a tough, ready to use, low odour, water based wall and ceiling coating based on a high technology vinyl terpolymer.

Hygenacoat is formulated to give a thick, flexible, continuous film forming a water vapour and dust barrier, which expands and contracts with thermal and minor structural movement.

Hygenacoat provides a hygienic coating containing high performance biocides to inhibit microbial growth even under arduous conditions.

Hygenacoat has a low sheen finish and is available in a range of attractive pastel colours.

Advantages/Features

Low odour/water based system, non-flammable.

Easily cleaned, tough, decorative, hygienic finish.

Smooth and jointless.

High Elongation (150%).

Can be applied to a wide range of internal building surfaces.

Good chemical resistance.

Building regulations class 'O' fire rating.

Easily repaired by overcoating, excellent adhesion to itself.

Moisture vapour barrier *.

Hygiene

Hygenacoat's water resistant finish will not support mould growth. The surface can be washed down repeatedly as it is unaffected by most detergents, cleaning and sterilising solutions.

Typical Applications

Hygenacoat provides a seamless, protective, decorative coating on internal walls and ceilings where controlled environments, sterile and dust free condition are required. These areas include hospital operating theatre suites, pharmaceutical production areas, food and drink processing areas, computer suites and electronics production.

Method of Use

Storage

All materials must be stored prior to use under cover, preferably in a dry heated store. Do not store below 5°C or allow to freeze. Do not expose to direct sunlight.

Surface Preparation

All surfaces should be clean and free from laitence, loose, weak or flaking material. All contaminants such as mould, oil, grease etc must be removed. Old gloss paint should be abraded to provide a surface key. Vacuum to remove dust.

Hygenacoat can be applied over plaster, plasterboard, sand/cement render, MDF board and many other building materials. Consult APML Limited for advice.

Mixing

All materials must be thoroughly mixed before application preferably using a mixing paddle fitted to a slow speed electric drill. Ensure no unmixed material remains on the sides or bottom of the container by emptying the material into another container and re-mixing.

Ambient Temperature

The temperature should be at least 5°C and preferably 10°C during application. If necessary, heating should be applied sufficiently in advance of the time of application to ensure that the temperature of the substrate and surrounding air is at least this level before starting work.

If space heaters are used they should be electric rather than gas fired as the latter can create high humidity.

The work area should be well ventilated to allow water to evaporate from the coating. High relative humidity levels should be avoided as this will retard water loss from the coating. Application must not be carried out under dew point conditions.

Application of Hygenacoat

Typical Specification

1. Mask and protect adjacent surfaces.
2. Surface preparation.
3. Apply one generous brush coat of termination adhesive **RM195** to all returns (internal corners) and terminations. The **RM195** provides the extra adhesion to prevent the Hygenacoat from pulling across corners or curling back from where it terminates.
4. Apply **Hygenacoat Primer** overall to the substrate being careful not to apply too thick a coat on vertical surfaces to avoid runs and sags. A spray cross pass of **Hygenacoat Primer** will give the required 50µ D.F.T. Always allow the **Hygenacoat Primer** to dry overnight. Caulk all gaps and cracks with painters caulk. Allow to dry.
5. Apply main **Hygenacoat** coating by spraying three to four wet passes to give the required 200µ D.F.T. Each coat must be allowed to dry to the touch before applying further coats. Care must be taken not to apply too thick a coat on vertical surfaces to avoid runs and sags. Allow to dry overnight before removing masking using a straight edge and sharp knife.

Equipment

Hygenacoat Primer and main coat can be applied using conventional air spraying, however, airless spray application is preferred giving a smooth finish facilitating cleaning and strict hygiene control. Suitable equipment is a Graco EH 433 GT airless spray unit with a 0.017 inch (17 thou) tip.

Cleaning

All spray equipment should be cleaned using cold water. **Hygenacoat** must not be left in fluid lines and equipment overnight.

Application Guide

	RM195	Hygenacoat Primer	Hygenacoat
Packing	5 Litre	20 Litre	20 Litre
Coverage of pack	50 m ²	100 - 120 m ²	37 m ²
Volume solids	N/A	33 %	37 %
Dry film thickness	N/A	50 microns	200 microns*
Drying time	N/A	Touch dry 3 hours	Touch dry 3 hours
(dependant on temperature and humidity)	N/A	Hard dry 24 hours	Hard dry 24 hours
Full properties	N/A	7 days	7 days
Surface temperature	5 - 30 °C	5 - 30 °C	5 - 30 °C

For a moisture vapour barrier total dry film thickness should be 500 microns.

Chemical Resistance

Hygenacoat is resistant to the effects of a wide range of chemicals however it is important that advice is sought from the APML Technical Sales Department before the product is specified.

Health and Safety

This product contains substances that are classified as hazardous according to the Chemicals (Hazard Information and Packaging) Regulations, 1994. The product is labelled in accordance with these regulations and further information regarding health hazards, handling, storage etc. is detailed in the Material Safety Data Sheet(s). In addition to considering the advice given by APML, all users must conform to the Control of Substances Hazardous to Health Regulations, 1994.

All coverages and thicknesses quoted are nominal and will be affected by substrate profile and porosity.

The information in this Data Sheet, given in good faith, is based on results gained from experience and tests. Since application and use are beyond our control, no condition or warranty is given covering the results from the use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept any responsibility for any loss or damage, howsoever caused arising from the said use.