

# AltroGuard™ Acryliccoat

## Technical Data Sheet

### Product Description

AltroGuard Acryliccoat is a very flexible and tough water-based, single-component acrylic emulsion which can be used to achieve a hygienic and durable surface ideal in areas that are not subject to mechanical damage or harsh environmental treatment. (For heavier duty applications or where the coating is required to withstand minor thermal vibration or structural movement, please ask for details of the AltroGuard Acryliccoat Plus or Polyucoat Plus Systems).

When cured, the surface has a satin gloss appearance that can be regularly scrubbed and cleaned. Its microporous properties enable damp substrates to dry out without blistering or loss of adhesion.

An integral biocide, Altrosan, provides a sterile surface throughout the lifetime of the product.

Easy to apply, AltroGuard Acryliccoat offers protection with the added choice of pastel colours to ordinate with other finishes, and

### Features

- Water-based, single pack component
- Non-hazardous
- Low odour
- Quick drying
- Colour stable
- UV resistant
- Integral biocide
- Choice of pastel colours
- Minimum two top coats required
- Spray, roller or brush applied

### Typical Areas of Use

AltroGuard Acryliccoat can be used on internal walls and ceilings which are constructed from a range of common building materials, although performance is improved if it is applied to an existing stable substrate. Typical applications include:

- Canteens
- Chefs Office
- Corridors (light duty)
- Recovery Rooms
- Toilets
- Class Rooms
- Food Services
- Sterile Areas
- Vending Stations
- Changing Rooms
- Food Preparation (light/medium duty)
- Food Retail (light/medium duty)
- Kitchens (under 100 meals daily)
- Hot Areas (to a max. of 80°C)
- Laundries, Laboratories (light duty)
- Surgeries/First Aids Rooms

### Test Data

Fire - BS 476 Parts 6+7: Achieves Class O rating when applied to a non combustible substrate.

Chemical Resistance: AltroGuard Acryliccoat is resistant to a wide range of chemical including:

Diluted Household Bleach

Decon 90 solution - 50%

50% saline solution

Cooking Oil, applied hot and cold

10% Nitric Acid

10% Sulphuric Acid

10% Acetic Acid

10% Hydrochloric Acid

10% Phosphoric Acid

10% Sodium Hydroxide

10% Potassium hydroxide

Please enquire with Altro for details of resistance to other specific chemicals

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**Scratch Resistance - BS 3900 Part E2. Part 5.3:** Acryliccoat rated as 2.0kg

**U.V. Resistance:** Acryliccoat (white) subject to 500 hours in the Q.U.V. Product showed no change.

**Impact Resistance -BS 3900 Part E3:** Tested using a front impact onto the coated test surface, using an indentation depth of 5.9mm. No cracking or delamination was observed

**Water Vapour Transmission Rate ASTM E96, Procedure B :** 32.8g/m<sup>2</sup>/24hrs

**Tainting BS 5929 Part 3, 1984:** Sensory evaluation was conducted on chocolate using the triangle test method (TES-S-002), Odour Transfer. Acryliccoat produced no tainting after a drying time of 72 hours.

**Biological Testing;** AltroGuard Acryliccoat as evaluated using a Zone of inhibition test and gave positive inhibition to growth against the following organisms:-

**Bacteria** Aeromas hydriphila, Bacillus cereus, Bacillus coagulans, Bacillus subtilis, Enterococcus faecalis, Enterococcus hirea, Escherichia coli, Klebsiella pneumoniae, Listeria monocytogenes, MRSA, Proteus vulgaris, Pseudomonas aeruginosa, Salmonella Enteritidis, Salmonella typhomurium, Staphylococcus aureus, Staphylococcus epidermis

**Fungus** Aspergillus Niger

**Yeasts** Candida albicans, Saccharomyces Cerevisiae

**Tensile Strength and Elongation at Break:** Tested to break both as an unsupported film and coated onto the lightweight glass fibre scrim. The following results were recorded.  
Extension at break 82% - reinforced 4.7%  
Tensile strength 2.9N/mm<sup>2</sup> reinforced 11.5N/mm<sup>2</sup>

**Presence of toxic chemical:** AltroGuard Acryliccoat does not incorporate any toxic elements beyond some naturally occurring traces at insignificant levels. Analysis was conducted to investigate the possible presence of the following:- Phenol, Antimony, Arsenic, Copper, Lead, Mercury, Nickel and Zinc.

**Scrub Resistance:** Tested using a load of 0.5lbs AltroGuard Acryliccoat showed a loss of 0.0226g after 100 revolutions and 0.0165g after 200.

## Preparation, Cleaning & Maintenance

**AltroGuard Bioclean:** AltroGuard Bioclean is a specially formulated product, developed for use as part of substrate preparation and for routine cleaning of the cured AltroGuard system. This product has been tested to BS EN1276 (1997) and passes at a dilution of 1:25. It utilises a biodegradable biocide. It could, if required, be applied by mechanical means, such as a hand spray or a hot pressure washer with no detriment to the equipment.

### a) Surface Preparation

Light contamination: 1:1 with clean water

High contamination: use undiluted

This product should be left on the surface for a minimum of 15 minutes and should then be washed off very thoroughly with clean water and the surface allowed to dry, before commencing application of coatings.

### b) General Cleaning and Disinfection

Dilute 1 part with 20 parts of clean water. Wash off thoroughly with clean water after use.

## Substrate Preparation

The table below is a guide to suitable substrates and the typical preparation and application routines required.

SUBSTRATE	PRE-TREATMENT	PRIMERS	1ST COAT	2ND COAT
Blockwork**	General Preparation	Acryliccoat diluted 50%	Acryliccoat	Acryliccoat*
Bricks/Stone**	General Preparation	Acryliccoat diluted 50%	Acryliccoat	Acryliccoat*
Cement Render**	General Preparation	Acryliccoat diluted 50%	Acryliccoat	Acryliccoat*
Metal(nonferrous)	Wire Brush	Proprietary metal primer	Acryliccoat	Acryliccoat*
Metal (ferrous)	General Preparation	Proprietary metal primer	Acryliccoat	Acryliccoat*
Plasterboard**	General Preparation	Acryliccoat diluted 50%	Acryliccoat	Acryliccoat*
Asbestos Board**	General Preparation	Acryliccoat diluted 50%	Acryliccoat	Acryliccoat*
Plaster**	General Preparation	Acryliccoat diluted 50%	Acryliccoat	Acryliccoat*
Ceramic Tiles	General Preparation RegROUT if needed	Tile Primer	Acryliccoat	Acryliccoat*
Plastics	Abrade	Not Required	Acryliccoat	Acryliccoat*
Painted Surfaces	General Preparation	Not Required	Acryliccoat	Acryliccoat*
Surfaces Emulsion	General Preparation	Not Required	Acryliccoat	Acryliccoat*
Wood**	Lightly Sand	Proprietary timber primer	Acryliccoat	Acryliccoat*

\* Third coat may be required on dark backgrounds or rough surfaces

\*\* Substrate should be dry i.e. Maximum protimeter reading of 15% (WME) preferably <12%

**General Preparation:** Remove loose flakes, heavy oil or grease by scraping. On suitable substrates, wash with AltroGuard Bioclean or a proprietary solvent or detergent based product to remove all traces of contamination. Non-porous substrates may be cleaned using high pressure steam cleaners.

Mould growth should be treated with Altro Guard Bioclean and any presence of algae should be treated with a dilution of bleach and allowed to dry.

Cracks not liable to movement should be filled with acrylic or polymer/cement based filler.

Cracks subject to movement should be filled with AltroMaster 100

**Tiles Primer:** Apply one coat of AltroGuard two part Primer by brush/roller and allow to dry.

**Top Coat:** Apply one coat of Acryliccoat diluted 50% to prime suitable surfaces.

Then apply two or three coats top coats, allowing to touch dry between coats, by brush, roller or spray. Product should be diluted by 10% for roller application.

## Application Equipment

**Spraying:** Most types of industrial airless spray equipment are suitable, pressure 176-211 kg/cm<sup>2</sup>-2500-3000psi, tip size 11-10 thou. Apply using even coats when a smooth finish is required. Use protective equipment when spraying.

**Brushes:** Use soft nylon or bristle paintbrushes, overcoating 90 degrees to first coat.

**Rollers:** Use short pile mohair or sheepskin rollers for coating or reinforcing matting. Dilute AltroGuard Acryliccoat by 10% prior to application.

**Cleaning:** Clean brushes, rollers and spray equipment with clean water. Dried material can be removed by paint stripper or cellulose thinners.

**Coverage**

AltroGuard Acryliccoat 7-10 m<sup>2</sup>/per litre

AltroGuard Tile Primer 25-30 m<sup>2</sup>/per litre

Coverage is calculated on a smooth substrate and may vary depending upon equipment used, porosity, texture and colour of substrate.

**Drying Times**

Under normal circumstances, individual components are usually touch dry within four hours and may be overcoated on the same day. Low temperatures and high relative humidity will extend drying time.

**Maintenance**

Wash down periodically, or to a planned programme as required, with AltroGuard Bioclean or a proprietary cleaning agent (always test suitability first and follow the manufacturers instructions). AltroGuard Bioclean should be used if there is a possibility of build up of micro-organisms on the surface particularly when a hygienic surface is required

**Product Sizes**

AltroGuard Acryliccoat 10 and 25 litres

AltroGuard Tile Primer 1 and 5 kilograms

AltroMastic 100 310ml tubes

**Colours**

Available in white and six standard colours to co-ordinate with the Altro Whiterock Extruded and Pastels range. Other RAL or BS standard colours may be available to minimum order quantities.

**Notes**

AltroGuard Systems are not suitable for use in showers or wash bays where the wall is consistently exposed to warm water.

Do not install near foodstuffs in unventilated conditions

Always ensure adequate ventilation.

Do not apply in damp conditions or at a temperature below 5°C.

Applied uncured materials should be protected from frost.

**Health & Safety**

Safety Data Sheet available on request from Altro Walls or the nearest distributor.

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**Distributor: GPC CONTRACTS & SERVICES SDN BHD**  
**24 Jalan SS3/31, Taman University**  
**47300 Petaling Jaya**  
**Selangor Darul Ehsan**  
**Tel:603-78766620 Fax:603-78765253**  
**Email:gpc@gpcflooring.com**

# Specification

## M60 Painting/Clear Finishing AltroGuard™ Acryliccoat

### Background

- Painted Surfaces
- Brick/Stone
- Blockwork
- Cementious Renders
- Plasterboard
- Plaster
- Metal
- Glazed Ceramic Tile
- Plastic (not polypropylene or polyethylene)
- Wood

### Note

A range of preparation products are available and consideration should be given to whether substrates are

- a) Previously decorated
- b) Primed or sealed
- c) Uncoated or new material
- d) Type of material
- e) Sterilization requirement

Refer to AltroGuard System Selection & Substrate Guide, also check NBS clauses 400 to 652 which cover the majority of preparation work,

### Moisture Content

All Substrates to be dry to touch i.e. maximum Protimeter reading 15%(WME), preferably <12% (WME)

### General Substrate Preparation

- All surfaces to be structurally sound
- All loose paint to be removed
- Surface contamination to be removed
- Remove defective finishes, and sand down
- Make good defects, holes, or depressions
- Using proprietary repair compound
- Structural cracks should be filled

### Wall Coating Type

AltroGuard Acryliccoat - Modified Acrylic Emulsion

### AltroGuard Acryliccoat

Reference	Colour
AGAC/01	White
AGAC/41	Linen
AGAC/43	Seafoam
AGAC/44	Ice
AGAC/45	Dove
AGAC/46	Barley
AGAC/47	Sunrise

A range of pastel colours (to BS4800 and RAL) are available to special order

# Specification

## M60 Painting/Clear Finishing AltroGuard™ Acryliccoat

### Fire Rating

Class 1 BS476 Part 6 & 7 Class O (on non combustible substrates)

### Application

- Do not apply near foodstuffs or in
- Unventilated conditions
- Do not apply in temperatures below 5°C or damp conditions
- Ideal application temperature 13 - 25°C
- Stir thoroughly before use
- Overcoating to take place once each coat is touch dry
- Apply a minimum of one coat of Flexibase, plus two coats of Polyucoat

- Apply by: 1.Airless spray  
2.Brush  
3.Roller

- Use in accordance with manufacturers Instructions

### Storage

- Store between 5°C and 25°C
- Do not store below 5°C or allow to freeze
- Shell life: 12 months

### Protection

- If required, Megafilm, Polythene sheet, Correx. Cardboard.
- Protection not normally necessary as the application of the wall covering should be as late in the contract as possible.

### Specification

For particular applications contact Altro Walls for full written specification.