

Product Description

A two component ultra-high performance ion exchange catalyst coating that provides long term anti-bacteria, anti-virus and anti-fungal performance even in low light and low temperature conditions. (Previously known as ecotio₂® Ultra C).

ECOCLEAN Clean and Protect Shield improves health and safety, reduces lifetime cleaning costs and provides a fresher, cleaner environment.

Intended Uses

ECOCLEAN Clean and Protect Shield is hydrophobic and specially formulated to provide optimal performance for internal areas including washrooms, bathrooms, food preparation and processing areas, restaurants, aged and childcare and hospitals.

Excellent anti-bacterial, anti-viral, anti-fungal, deodorising and antioxidant properties for a wide range of surfaces and equipment such as tiled and stone floors, grout, benchtops, ceramics (toilets, urinals and basins) and smooth concrete surfaces. ECOCLEAN Clean and Protect Shield is especially suitable for floors due to enhanced wear resistance.

Improved hygiene, inactivation of harmful substances and faster, easier cleaning along with long term deodorising are major benefits of ECOCLEAN Clean and Protect Shield.

ECOCLEAN Clean and Protect Shield also seals surface and has enhanced graffiti resistance on concrete surfaces with fast and easy removal of repeat tags.

Practical Information

Product Code	C036C-A and C036C-B
Colour	Milky light yellow transparent liquid (almost clear when dry)
Gloss	May impart some gloss depending on the surface
Theoretical Coverage	20m ² /litre*
Practical Coverage	Depends on application (apply appropriate loss factors)
Method of Application	Paint Pad, roller, brush or spray
Density	0.91 kg/m ³

*Coverage will vary as loss factors are dependent on many influences including weather conditions, porosity of substrate, application method and parameters, skill of applicator etc

Drying Time				Overcoating interval with self	
Temperature	Touch Dry	Hard Dry	Max Cure	Minimum	Maximum
20°C (68°F)	<1 hours	24 hours	3 days	Contact ECOCLEAN	

Regulatory Data

Flash Point (Typical)	12°C
VOC	802 g/L*

*Product is solvent based but over the life of the asset provides many positive environmental benefits including ... life, better use of materials, superior anti-graffiti properties, greatly reduced cleaning chemicals, water etc and improved IAQ while reducing other health risks.

Surface Preparation

Clean off oil, dirt and any containments including cleaning chemicals. Foreign substances such oil will reduce adhesion of the product and significantly affect performance and durability. Surface must be 100% dried prior to application and the moisture content of porous surfaces must be less than 1.5% as ECOCLEAN Clean and Protect Shield is moisture sensitive while curing. If you have any concerns, please contact our ECOCLEAN team to discuss.

Application

Mixing

Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.

- Agitate Base (Part A) to ensure all product is uniformly dispersed
- Agitate Curing Agent (Part B) to ensure all product is uniformly dispersed
- Combine entire content of Curing Agent (Part B) with Base (Part A) and thoroughly mix

Do not return any unused portion to the container and do not mix lids from Part A and Part B as the product may cure in the container.

Mix Ratio	Working Pot Life
1:1 by volume	30mins at 20°C (Above 20°C the pot life will be reduced) *
<i>*Pot life can be increased if mixture is stored in an airtight container.</i>	

Application Equipment

Use dedicated tools for the coating and do not contaminate with other liquids.

For small areas a paint pad, roller or brush can be used. Larger areas can be spray applied using a HVLP spray with fine tip preferred for minimising loss factors. Tip size between 0.8mm to 1.2mm as viscosity of products is that of water. Do **NOT** thin. When applying ensure that there are no streaks or drips and apply in small areas at a time.

Work Stoppages

Do not allow material to remain in hoses, guns or spray equipment for extended periods. Thoroughly flush all equipment with isopropyl alcohol (IPA).

Clean Up

Clean all equipment immediately after use with IPA. It is good working practice to periodically flush out spray equipment. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

Product Characteristics

Always apply material on a small test patch prior to full application as the coating may change the appearance including colour of the base material (can impart a slight wet look).

This technical datasheet provides general guidance on the use of ECOCLEAN Clean and Protect Shield. Specific project requirements will be dependent upon the substrate type, substrate condition, service end use and environmental conditions.

Always consult ECOCLEAN to confirm that ECOCLEAN Clean and Protect Shield is suitable for the intended end use. Application should be controlled according to the specification as over application can cause cracking.

Storage

Products should be stored in their sealed containers until use. When products are on site store in a cool place and in the shade.

Store excess products in an air-conditioned environment regulated between 5-25°C. Do not return excess products to container, measure out what you require and dispense only what is required for the job at hand. Do not freeze or refrigerate below 5°C.

Systems Compatibility

ECOCLEAN Clean and Protect Shield is not compatible with other ECOCLEAN products in our range.

Safety Precautions

Make sure the work area is ventilated and there are no fire sources as product is solvent based and flammable.

Avoid contact with skin. Correct personal protection equipment must be worn, see Safety Data Sheet (SDS) for more information.

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the SDS and the container(s) and should not be used without reference to the SDS which are available on request. Ensure you contact our ECOCLEAN team if you require any information before starting application.

Guidelines must be strictly followed including correct personal protection equipment (PPE), storage and disposal.

Additional Information

Shelf Life: 12 months, when stored in dark or low light conditions between 5-25°C (ideally this product should be stored in an air-conditioned environment).

Part A Pack Size:	1 L pack	Shipping Weight (typical):	1 kg
Part B Pack Size:	1 L pack	Shipping Weight (typical):	1 kg

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available on request:

- ECOCLEAN Clean and Protect Shield Safety Data Sheet (refer to both Part A and Part B)
- Application Guidelines - ECOCLEAN Clean and Protect Shield

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