

## 2K Bio-Tec Water-Based Epoxy (Semi-Gloss)

Fleetwood Bio-Tec 2K is a high-performance, water-based epoxy coating formulated for environments where hygiene and durability are critical. Its antibacterial properties help reduce the spread of harmful bacteria, making it ideal for healthcare, food preparation, and cleanroom settings.



### PRODUCT DESCRIPTION

Fleetwood Water-based Epoxy (Semi-Gloss) is a 2 pack epoxy coating system designed to cope with the demands of modern sanitary areas where the highest levels of aseptic conditions are required. Proven to significantly minimise the spread of disease and infection including MRSA, Salmonella and E. Coli. Bio-Tec, when used alongside regular cleaning procedures, provides the perfect solution for your facility. \* Tested against a modified version of JIS Z 2801:2000 is a Japanese Industrial Standard (see note below)

### USES

- Operating theatres
- Hospital wards
- Clinics
- Doctors Surgeries
- Veterinary Hospitals
- Pharmaceutical manufacturing
- Food preparation areas
- Commercial catering and kitchen units
- Nursing or care homes
- Detention centres or prisons
- Hotels
- Abattoirs
- Dairies
- Schools

### CHARACTERISTICS / ADVANTAGES

- Excellent durability, low odour, flash rust resistant
- Inhibits growth of MRSA, E.Coli and other bacteria: Tested under Japanese JIS Z 2801:2000
- Contains highly active silver ion bactericide technology.
- Excellent adhesion giving superior abrasion resistance
- LRV Rating 90
- Low VOC and odour
- Easy application by spray
- Excellent coverage and opacity

### APPROVALS / STANDARDS

#### VOC Content

- 2004/42/EC EU limit value for this product (cat.A/j WB): 140g/l (2010) This product contains max. 75g/l VOC.

#### Test for Antimicrobial Activity

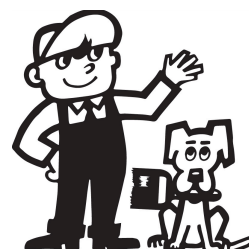
\*This product was tested in Trinity College Dublin, against a modified version of JIS Z 2801:2000 a Japanese Industrial Standard for testing the antimicrobial activity of products, especially those made of plastics, metals, or ceramics. It quantifies the ability of a surface to inhibit or kill bacteria, with a common focus on E. coli and S. aureus. This test is used to assess the effectiveness of antimicrobial agents on various surfaces, including those in healthcare and consumer products



### Need help? Speak to the experts

Our dedicated team are here to help. If you have any queries on this product, or any product in the Fleetwood range, queries about preparation or application, or can't find your required colour, call us today

Technical Assistance: Email: [technical@fleetwood.ie](mailto:technical@fleetwood.ie) Tel: +353 49 854 7209 (weekdays 9am-5pm)  
Colour Advice: Tel: +353 49 854 7209 (weekdays 9am-5pm Saturdays 8am - 4.30pm)



#### Technical Data Sheet

2K Bio-Tec Water-Based Epoxy  
F335  
Febuary 2025  
Issue 3



Colour

Colours Brilliant White & Tinted To Pastal Colours

Colour Collections Fleetwood Colour Perfect, NCS, Sherwin Williams, Pantone, BS British Standard, & RAL



Specification

Composition	2 part epoxy resin
Number of Components	2
Recommended number of coats	2 coats are recommended. Coverage may vary depending on the profile, porosity of the substrate and application method.
Usage Interior/Exterior	Interior.
Application Tools	Brush, roller or spray.
Coverage	Approx. 8m² per litre, per coat.
Overcoat Times	Recoat after 18 - 24 hours.
Curing Time	Touch dry in 1- 2 hours. 14 days to full cure. <b>Pot life</b> 72 hours
Suitable For	New or previously painted drywall, plaster, cement, concrete and other paintable surfaces.
Min. application temperature	4°C
Pack Size	5L, (4 litre base can + 1 litre of activator)
Shelf Life	3 years in unopened container.
Storage	Do not allow to freeze.
Cleaning Tools	Wash application tools in warm, soapy water immediately after use. .
Principle Limitations	Not intended for application to floors or any surface subject to water immersion or prolonged contact with water including shower enclosures, saunas, steam rooms. Not recommended for use in HVAC duct work.
Please contact us regarding applications not described here	

Product Information

Pack Sizes:	5L, (4 litre base can + 1 litre of activator)
Colour Range:	Brilliant White plus pastel colours from the Colour Answers tinting system
LRV Range:	90
VOC Content:	Contains max VOC; 75g/l Conforms to EU 2010 Directive (Cat A/j) 140g/l

Composition:	Pigment: Lightfast Pigments Binder: Epoxy resin. Solvent: Water
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Solids:	Volume Solids 39% (+/- 2%) Weight Solids 49% (+/- 2%) Specific Gravity 1.20 g/ml (+/- 0.15) Gloss 30 @ 60° pH -Value > 8.2
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## Product Information Cont.

### Surface Preparation:

Ensure the surface to be painted is sound, clean, dry and free from dust and other contaminants, in particular, oil, grease, release agents, chalk, mildew and loose or flaking material. If the substrate is block or masonry prime with Fleetwood Bio-Tec Water-based epoxy primer to provide a suitable key. Ensure surface is completely dry prior to application. The correct amount of activator is contained in the smaller tin, and must be added and mixed thoroughly before use. The mixture **must be used within 72 hours**.

Note: It is important to ensure that the concrete/cement is fully cured before the paint is applied.

### Application:

The base and activator should be mixed together at a rate of 4:1 by volume. Ensure that the components are completely mixed before application. A first coat thinned with 10% water is recommended where the substrate is particularly porous. The mixture must be used within 72 hours of mixing. The product may be applied by brush, roller or airless spray. If more than one can of a colour is to be used in the same area, intermix before use. Application conditions: Temperature (at least 4°C above dew point) 10°C to 42°C plus relative humidity 75% maximum.

### Spreading Rate:

As a guide, a coverage rate of up to 8m<sup>2</sup>/litre can be achieved under normal conditions

### Reduction:

Reduce by up to 10% as required by application and or equipment. When applying over previously painted matt surfaces, it is good practice to apply the 1st coat at 105 dilutions.

### Spray Recommendations:

**Conventional Spray:** Satisfactory through most equipment.

**Airless Spray:** A typical recommendation for airless spray application is a minimum working pressure on paint of 140 kg/cm<sup>2</sup> (2000 lb/in<sup>2</sup>) with a spray tip size of 0.38mm to 0.46mm (15 - 18thou) spray tip angle 65°. Filter mesh 60

### Drying Time:

Touch Dry: **1 - 2 hours**

Recoat: **18 - 24 hours**

This is dependent upon temperature and humidity. Darker colours may take longer 26°C to 50% RH @ 100 µm

Pot Life: **72 hours**

### Cleaning Up:

Clean up with soap and water. After cleaning up be sure to flush spray equipment with solvent to prevent rusting following manufacturer's instructions. Dispose of can in accordance with local authority guidelines.

### Tint Instructions:

Tint only with Fleetwood Tinting systems

### Previously Painted Surfaces:

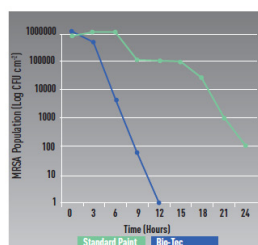
Keep out of reach of children. Ensure good ventilation during application and drying. If the product comes in contact with the eyes rinse immediately with plenty of water. To remove splashes from skin, use soap and water or a recognised skin cleaner. Do not take internally. Contains no added lead.

### Precautions:

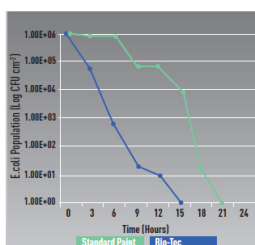
If in sound condition, clean the surface of all foreign material. Glossy surfaces must be rubbed down to provide a key. If paint is peeling or badly deteriorated, clean to sound substrate and treat as new. Do not use or store in extremes of temperature and protect from frost. To prevent spillage, please store and transport all containers in upright position. Select sensible working clothes that cover as much of the body as possible. Always wear gloves and use eye protection. Do not touch your mouth or eyes with your gloves. Do not take internally. If medical advice is required ensure product container or label is at hand. **Contains no added lead.**

### Testing:

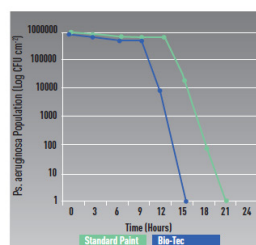
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**MRSA**  
(Methicillin-Resistant Staphylococcus aureus)



**E. coli**



**Pseudomonas aeruginosa**

### Limitations:

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We do not hold guarantee for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice. If you have any queries or concerns about using this product, please contact us before application on +353 49 854 7209 [technical@fleetwood.ie](mailto:technical@fleetwood.ie)

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