

BIODEX SHEEN



Water-based Elastomeric Biostatic Coating

USES

BIODEX SHEEN is a tough, semi-gloss hygiene coating which prevents the growth of micro-organisms and limits the spread of harmful germs through an innovative combination of encapsulated in-film protectant and silver ions. **BIODEX SHEEN** is an ultra low VOC biostatic coating which is specified for all industries where strict standards of hygiene are observed, and for use in other widely ranging public areas requiring long term durability and efficacy. **BIODEX SHEEN** is the preferred biostatic coating for both maintenance and new build works, exhibiting very fast drying with two coats easily applied within a single working day using standard painting

ADVANTAGES

- Unique dual action in-film protection combined with silver chloride technology
- Independently tested against a wide range of challenge micro-organisms
- Totally non-toxic, non-leaching and non-tainting formulation
- Vapour permeable to allow substrate moisture to escape
- Attractive mid sheen finish with fast drying properties for rapid installation
- Produces a tough, flexible film which is easily reinforced over cracks and joints
- Safe, water-based, low odour, minimal VOC coating - wash equipment in water
- Durable, low maintenance coating, easy to maintain and refurbish


PRODUCT DESCRIPTION

BIODEX SHEEN is a non-toxic and non-leaching biostatic coating which is based on the latest dual action chemistry with in-film protection plus an additional silver ion active component to give effective antimicrobial performance and resistance to germs. The advanced styrene acrylic micropolymer resin binder cross links to give excellent adhesion which remains unaffected even when substrate moisture escapes to atmosphere through the membrane. **BIODEX SHEEN** is permanently flexible to allow for thermal movement, and whilst hairline cracks will be bridged, higher levels of movement can be accommodated by introducing reinforcement. **BIODEX SHEEN** is a low odour, fast drying membrane with a pleasing sheen finish which is easy to maintain in a clean condition.

TECHNICAL DATA (TYPICAL)

Basis:	Acrylic micropolymer
Finish:	20 - 25 gloss units at 60°
Solids Content:	53.0% by weight 60.0% by volume
Specific Gravity:	1.27
VOC Content:	<0.01% by mass
Colours:	Available in a standard colour range with special colours to order.
Min. Application Temperature:	3°C

Curing/Drying Time (approx):
 At 20°C/50% RH, touch dry in 45 minutes.
 Dry to overcoat in 1-2 hours. Product is through cured in 2-12 hours, temperature dependent.
 Adhesion to Concrete: EN1542:1999 (pull off test) >3.0 MPa at typical DFT
 Water Vapour Transmission (V):
 BS EN ISO 7783-2:1999 15g/m²/day
 Equivalent Air Layer Thickness: S_D = 1.41m
 Class I <5m equivalent air layer thickness
 Accelerated Weathering:
 EN 1062-11: No blistering, cracking or flaking after 20,000hrs QUV-B weathering.
 Elongation at Break:
 BS903 PtA2 47% at 200µm DFT
 Service Temperature: -50°C to +80°C
 Fire Properties:
 In compliance with BS476 Part 6 & Part 7
 Resistance to mould, fungi, algae & bacteria, eg:
Mould:
 Alternaria alternate, Aspergillus versicolour, Cladosporium cladosporoides, Penicillium purpurogenum, Stachybotrys chartarum
Fungi:
 Aureobasidium pullulans, Rhodotorula rubra
Algae:
 Chlorella emersonii, Nostoc commune
Bacteria:
 Pseudomonas aeruginosa

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EN1504-2: Surface Protection Systems - Moisture Control (MCC)	
Adhesive Bond:	Pass ≥ 3.0 MPa
Water Vapour Permeability:	Class I <5m
Capillary Absorption:	Class III <0.1 kg.m ⁻² .h ^{-0.5}
Artificial Weathering:	20,000 hours
Dangerous Substances:	Complies with 5.4
Reaction to Fire:	Euroclass B-s1, d0

APPLICATION DATA

Application Guide available on request.

PREPARATION

The areas to be treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products & organic growth. Surface laitance & any soft, sandy or flaking material should be removed by mechanical means back to a sound surface, suitable for treatment. Use techniques capable of achieving the required degree of preparation. All Flexcrete Concrete Repair Mortars must be allowed to cure for a minimum of 24 hours. Concrete & cementitious screeds or renders must be a minimum of 10 days old and preferably 28 days. Please contact our Technical Department for advice.

Substrates contaminated by mould, algae, mildew, bacteria, etc., require pre-treatment with **BIODEX WASH**. Visible areas of growth and associated underlying loose paint or substrate must be removed by mechanical means and the substrate treated with **BIODEX WASH**.

EQUIPMENT

Brushes: Wide, soft nylon or bristle paint brushes.
Rollers: Typically medium pile synthetic, avoid roller gliding on smooth surfaces.
Spray: Airless spray can be used with care on smooth substrates. Most types are suitable operating at 2500-3000psi tip sizes 11-19 thou. Further details available on request.

PRIMING

Ensure the moisture content of the substrate is less than 20% wood moisture equivalent. Sound painted surfaces and ceramic tiles may be treated directly, abraded as required. Absorbent surfaces can be primed with 25% dilution of **BIODEX SHEEN**. Consolidate potentially friable or dusting surfaces with **FLEXCRETE BOND-PRIME** at a spread rate of up to 5m²/litre. Rough, porous or uneven surfaces will reduce coverage. Please refer to relevant data sheet and priming guide.

COATING

Apply **BIODEX SHEEN** membrane over the primed, dry surface, by brush, roller or airless spray at the maximum coverage rate given below. Allow to dry for a minimum of 1-2 hours until touch dry before applying a second coat as above. To assist application and to act as a guide to coverage rates during application each coat may be applied in a contrasting colour.

PRODUCT	COVERAGE RATE			
	1st Coat m ² /l	2nd Coat m ² /l	WFT (µm) per coat	FINAL DFT (µm)
BIODEX SHEEN	6.0	6.0	166	200

Coverage rates quoted are for smooth, non-absorbent surfaces. Allowances should be made for uneven or absorbent surfaces.

REINFORCEMENT CRACKS AND JOINTS

BIODEX SHEEN will accommodate hairline cracks. Larger static cracks require filling with **MONOLEVEL 250F**. Reinforce over live cracks, construction joints and joints between dissimilar materials with **FLEXCRETE FLEX-TAPE** to provide strategic strengthening. Apply a local embedment coat into which the reinforcement is placed whilst the coating is still wet. Allow to dry, and if necessary lightly sand to remove any prominent edges before overcoating the whole area with two coats of **BIODEX SHEEN**. If overall reinforcement with **CEMPROTEC GFM** random weave glass fibre matting is required, **BIODEX HB** should be used for embedment. Please contact our

CLEANING

All tools should be cleaned with water immediately after use.

SHELF LIFE

Shelf life is 2 years for unopened containers stored in dry, frost free conditions away from heat.

PACKAGING

Pack Size: 15 litre plastic buckets.

SAFETY DATA

Safety Data Sheet available on request.

The information herein is correct to the best of our knowledge, but it does not necessarily refer to the particular requirements of the customer. If the customer has any particular requirements it should make them known in writing to Flexcrete Technologies Limited, and obtain further advice accordingly.



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