

ROOFDEX HB



High Build Eco-Friendly Cold Applied Liquid Roofing

USES

ROOFDEX HB is an elastomeric, fluid applied, waterproof coating for flat or pitched roofs. It is a cold applied, seamless membrane that can be fully reinforced to provide long term flat roof weatherproofing for exposed, inverted and green roof designs. **ROOFDEX HB** may be specified in high solar reflective white to reduce energy consumption and maximise durability in tropical conditions, and for roofs in metropolitan areas to reduce Urban Heat Island (UHI) effect.

ADVANTAGES

- Environmentally-friendly, single component, water-based copolymer.
- Easy to apply to new or existing flat or pitched roofs.
- Excellent adhesion to a range of roofing substrates.
- Fluid applied for a seamless finish even over complex geometry.
- Permanently elastomeric, UV resistant and solar reflective.
- Vapour permeable to allow the release of substrate moisture.

PRODUCT DESCRIPTION

ROOFDEX HB is a vapour permeable, minimal VOC rated styrene acrylic coating which is virtually odourless on application and inherently protected against biofilm attack. It is resistant to water ponding and remains flexible throughout its long service life on flat or pitched roofs. The high build, thixotropic nature of **ROOFDEX HB** is ideal for embedment of reinforcement and allows for treatment of upstands and other roof details without slumping.

COMPLIANCE

ROOFDEX HB is compliant with the requirements of ETAG-005 Part 8 for Fluid Applied Roofing.

	
Flexcrete Technologies Ltd Tomlinson Road, Leyland PR25 2DY England 15 0086-CPD-530942	
EN1504-2: Surface Protection Systems - Moisture Control (MCC)	
Adhesive Bond:	Pass ≥ 2.5 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

TECHNICAL DATA (TYPICAL)

Basis:	Styrene acrylic copolymer
Solids Content:	60.0% by weight 49.0% by volume
Specific Gravity:	1.35
VOC Content:	<0.07% by mass
Min Application Temperature:	3°C
Colours:	Solar reflective white and other standard colours
External Fire Exposure :	RESULT: Ext. F.AA
Roof Test	1 hour - No penetration
BS476:Part 3:2004	or spread of flame
Service Temperature:	-20°C to +80°C

TEST PARAMETER	SYSTEM 1 RESULT	SYSTEM 2 RESULT	SYSTEM 3 RESULT	COMMENTS
Tensile Elongation BS903-A2	500%	10%	5%	See Bulletin RXHB/023
Tensile Strength BS903-A2	0.68MPa	5.45MPa	16.60MPa	See Bulletin RXHB/023
Liquid Water Permeability BS1062-3:1998	0.01 Kg/(m ² .h ^{0.5})	0.02 Kg/(m ² .h ^{0.5})	0.02 Kg/(m ² .h ^{0.5})	All results are Class III (Low) See Bulletin RXHB/005
Water Vapour Transmission BS EN ISO7783-2:1998	V = 17.0 g/m ² /24h	V = 15.0 g/m ² /24h	V = 11.5 g/m ² /24h	See Bulletin RXHB/007
Equivalent air layer Thickness, S _D	1.21m	1.41m	1.79m	All classed as breathable (S _D <5m) See Bulletin RXHB/007
Curing/Drying Times Per coat	1 - 12 hours	2 hours - overnight	4 - 24 hours	Times dependent on temperature, RH and air movement when curing
Flexibility (Mandrel Test)	No crack	No crack	1.5mm crack*	* 3.6mm diameter mandrel

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 and 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. Fill large static cracks and other defects with **MONOLEVEL FC**, or **MONOLEVEL 250F** if a finer finish is required and allow to cure for a minimum of 24 hours. Please contact our Technical Department for advice on levelling and screeding materials.

Substrates contaminated by mould, algae, mildew, bacteria, etc., require pre-treatment with **BIODEX WASH**. Please consult separate Technical Data Sheet and Application Guide

EQUIPMENT

Brushes: Wide, soft nylon or bristle paint brushes.
Rollers: Use a medium pile roller.
Spray: Airless spray can be used with care on smooth substrates. Most types are suitable operating at 2500-3000psi tip sizes 17-23 thou. Further details available on request.

PRIMING

For areas free of ponding on non-absorbent cementitious substrates, **ROOFDEX HB** is self-priming with a 25% dilution with clean water (3 parts **ROOFDEX HB** mixed with 1 part clean water). Porous surfaces, ponded areas and other mineral substrates require **BOND-PRIME**. Asphalt, bituminous felts and painted surfaces must be treated with **BOND-PRIME**. Metal surfaces and flashings should be primed with **METAL-PRIME WB** as required. Plastics should be lightly abraded before applying **BOND-PRIME**. Please consult our priming guide or Technical Department for further information.

COATING

Apply the first coat **ROOFDEX HB** by brush, roller or airless spray at the minimum coverage rates shown below. Where necessary, immediately embed reinforcement. Allow to through cure, typically overnight in temperate conditions before applying a second coat as above.

System 1 – Solar Reflective Waterproofing. Unreinforced.

System 2 – Weatherproofing (10 years). Reinforced with **CEMPROTEC GFM 100**

System 3 – Weatherproofing (15 years). Reinforced with **CEMPROTEC GFM 225**

Coat	System 1 Unreinforced			System 2 Cemprotec GFM 100			System 3 Cemprotec GFM 225		
	l/m ²	m ² /l	WFTµm	l/m ²	m ² /l	WFTµm	l/m ²	m ² /l	WFTµm
1st	0.375	2.67	375	0.75	1.33	750	1.25	0.8	1250
2nd	0.375	2.67	375	0.5	2.00	500	0.5	3.33	500
Overall	0.75	1.33	750	1.25	0.8	1250	1.75	0.57	1750

CRACKS AND JOINTS

Fill "live" cracks, construction joints and joints between dissimilar materials with a suitable exterior grade flexible filler. When treating expansion joints, apply masking tape (at least 25mm wide) centred over the joint. For **System 1** applications, where necessary apply a local embedment coat and immediately place **CEMPROTEC FLEX-TAPE**. Allow to dry, and if necessary lightly sand to remove any prominent edges before overcoating the whole area with two coats of **ROOFDEX HB**.

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.



Flexcrete Technologies Limited
Tomlinson Road
Leyland
Lancashire
PR25 2DY
United Kingdom
Tel: +44 (0) 845 260 7005
Fax: +44 (0) 845 260 7006
Email: info@flexcrete.com
Web: www.flexcrete.com



FM 41091 Quality
EMS 597350 Environmental
OHS 597351 Health & Safety