

Mat Fibre Reinforcement

FORMERLY FLEXCRETE CEMPROTEC GFM SERIES REINFORCEMENT

PRODUCT DESCRIPTION

A specially formulated random weave mat comprising chopped strands of e-glass fibres. It is silane coated for long-term stability and emulsion-bound to give ultra-fast wetting out properties.

Unlike traditional glass fibre reinforcements, the hybrid technology enables Intercrete 4876 to be quickly and effectively moulded around the most complex roof geometry, easily accommodating upstands and sealing around other protrusions. On facades and bridge parapets requiring reinforcement, it produces an attractive, random weave effect which is aesthetically pleasing.

INTENDED USES

Supplied in two grades for the reinforcement of the Intercrete range of fluid applied membranes; GFM 100 (lighter grade) and GFM 225 (heavier grade).

It is particularly suited for the reinforcement of Intercrete 4845 used in pitched and flat roof waterproofing where it greatly enhances tensile strength and tear resistance, to increase cohesive strength of the composite membrane to accommodate cracks in roofing substrates.

It is also used to reinforce membranes in situations where a multi-crazed or cracked substrate must be treated, or where there is a need to provide an additional defence against mechanical damage in high traffic environments.

PRACTICAL INFORMATION FOR INTERCRETE 4876

Weight	100g/m ² and 225g/m ² Grades
Elongation	See Mechanical Properties
Tensile Strength	See Mechanical Properties
Shelf Life	24 months minimum @ 25°C (77°F)
Pack Size	1.00m wide roll x 100m length (GFM 100) 0.95m wide roll x 125m length (GFM 100)

Property	GFM 100	GFM225
Typical Area Weight ISO3374:2000	100g/m ²	225g/m ²
Loss on Ignition ISO1887:1995	5.4% (average)	5.4% (average)
Moisture Content ISO3344:1997	≤ 0.3%	≤ 0.2%
Breakage Strength ISO3342:2011	≥ 12N	≥ 30N

COMPLIANCE AND CERTIFICATION:

When used as part of an approved scheme, this material has the following certification:



Protective Coatings

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APPLICATION

Please consult the relevant Intercrete membrane Data Sheet and Application Guide for details on substrate preparation, priming and application.

Preparation

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.

Embedment

Pre-cut the Intercrete 4876 to the required size or shape using scissors. Detail work should be carried out first by treating upstands and around any fixtures, fittings or penetrations through the substrate prior to treating the main substrate.

Apply the membrane to the localised detail using a brush or roller at the thickness given in the table below. Lay the pre-cut sections of Intercrete 4876 into the wet material immediately and work it into the coating using a brush or roller. The fibres will soon start to wet out and disperse. Smooth down any proud fibres with a short pile mohair roller.

Allow to dry thoroughly overnight before treating main areas. Apply the membrane at the thickness given in the table below to the main areas using a brush, roller or airless spray, overlapping onto any detail work by 25mm. Lay the pre-cut sections of Intercrete 4876 into the wet material as above.

Intercrete 4876 should normally be embedded using a short pile mohair roller, although for rougher irregular substrates, a sheepskin roller should be used as this will give better contact with surface contours. Allow to dry thoroughly.

Apply a full overall application of the appropriate Intercrete membrane in accordance with the technical literature. Ensure reinforcement is fully encapsulated.

Coverage

Product	Embedment Coat		
	Intercrete 4885	Intercrete 4880	Intercrete 4887
GFM100	750µm	700µm	700µm
GFM225	1250µm	1000µm	1000µm

Appearance

GFM100

GFM225



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APPLICATION TIPS

- Rough, porous or irregular substrates will reduce coverage.
 - Regularly check application thickness with a wet film gauge.
 - On areas where the coating will be subject to impact or abrasion, or where the substrate is cracked or crazed, total reinforcement using Intercrete 4876 will increase the durability of the system.
 - Use sufficient pressure to draw the Intercrete fluid applied membrane through the unwoven texture of the reinforcement and uniformly embed.
 - When dealing with complex details, a vigorous stippling or tamping technique will ensure complete contact with the substrate.
 - Use a short pile mohair roller to smooth down proud fibres.
 - Ensure that rollers are kept fully charged with material to avoid pulling up fibres.
 - Successive coats should ideally be applied in different colours, acting as a visual aid in achieving the necessary coverage rates.
 - Curing/drying time is temperature dependent. As a guide, the coating will be touch dry in approximately 1-8 hours in hot conditions (>30°C.), 2-12 hours at 20°C. and 4-24 hours at lowest temperature (>10°C.).
 - The use of a dark colour for embedment can reduce drying time in cooler conditions.
 - Product is through-cured in 2-24 hours dependent on temperature.
 - Cold Weather Working (See separate guide).
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MECHANICAL CHARACTERISTICS

Tensile Properties to BS 903-A2: 1995 when used in Intercrete 4885:

Reinforcement Type	Un-reinforced	GFM100	GFM225
Intercrete 4885	0.75L/m ²	1.25L/m ²	1.75L/m ²
DFT	370µm	650µm	900µm
Elongation	500%	10%	5%
Tensile Strength	0.68MPa	5.45MPa	16.60MPa

Tensile Properties to BS 903-A2: 1995 when used in Intercrete 4885:

Property	GFM100	GFM225
Intercrete 4885	1.25L/m ²	1.75L/m ²
DFT	650µm	900µm
Result	No indentation, no damage to coating system.	

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

IMPORTANT NOTE

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given is subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

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