

# Fibrocem High Impact Underground Transport System Render

TECHNICAL DATA SHEET



## Product Description

Fibrocem High Impact UTS Render is a pre-mixed ready to use material with the addition of clean water the only requirement. The Fibrocem High Impact UTS Render range is a two coat or three coat system that provides extraordinary durability and a class 0 fire rating. The application of Fibrocem High Impact UTS Render is similar to standard renders, requiring the use of a stainless steel trowel, straight edge rule. **The Code of Practice for Renders BS 5262 1991 and NBS Building Specification section M20 should be followed.**

The Fibrocem render system helps architects, and surveyors to comply with **Section B2** of the **Building Regulations** and fulfil their professional obligations under the **Regulatory Reform (Fire Safety) order (RRFSO)**.

## Why use Fibrocem High Impact UTS Render?

Fibrocem High Impact UTS Render has been specifically designed for Underground transport systems, its high density provides superior durability and resistance to air-borne pollutants, making it particularly suitable for use in industrial environments and Underground transport systems were durability, resistance to attrition and atmospheric pollution are primary requirements. Fibrocem uses unique fibre technology that gives the material extraordinary tensile strength and durability and delivers the unique characteristics that are required for today's non stop transport systems.



OR



Part of the Anti-Graffiti System

Fibrocem Anti/Graffiti - Fire Protection or Fibrocem Hygiene coatings are the recommended functional/decorative finishing coat system for the Fibrocem High Impact UTS Render. (Please see product overview and technical data sheet for more information)

## System Features

- Resistant to atmospheric pollution
- Extraordinary durability
- Class 0 fire rating
- Outstanding tensile strength
- Total high impact protection / where destructive attack is likely to occur
- Independently tested at Warrington Fire Research Centre
- 2 coat system / 3 coats on stainless steel metal lath
- Provides long term protection

## Product Appearance

Fibrocem UTS Render is a flat rendered finish. When recommended Fibrocem Anti / Graffiti - Fire Protection coating is applied as the final finishing coat, the appearance is a smooth high sheen finish.

## Where can it be used?

- Track tunnels
- Walk ways
- Stations
- Platforms
- Any internal or external wall that requires protection

## The Fibrocem Service available to you

- Free specification service
- On-site product training when required
- Unrivalled expertise and knowledge
- Fibrocem trained contractors available
- On site technical backup

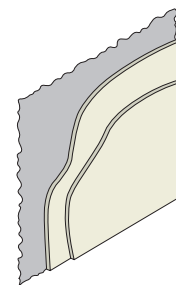
NBSPlus

Independently tested by  
  
warringtonfire  
global safety

## Technical information

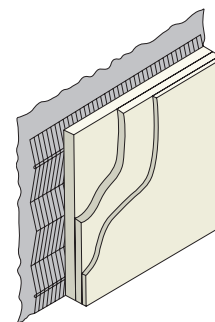
### General Application

Product	Type	Thickness (mm)	Recommended hand tools
Fibrocem UTS	Dubbing	max. 25mm/coat	Steel Trowel
Fibrocem UTS	Backing	8mm - minimum	Steel Trowel
Fibrocem UTS	Finish	4mm - minimum	Steel Trowel



### Stainless Steel Rib and Expanded Metal Lath Reinforced Application

Product	Type	Thickness (mm)	Recommended hand tools
Fibrocem UTS	Metal lath backing (First Coat)	9mm min - maintaining 6mm from the face of the lath.	Stainless Steel Trowel
Fibrocem UTS	Metal lath backing (Second Coat)	3mm - minimum	Stainless Steel Trowel
Fibrocem UTS	Finish	4mm - minimum	Steel Trowel



#### STRENGTH

##### Flexural Strength

7 days	5.7 MN/m <sup>2</sup>
28 days	8.8 MN/m <sup>2</sup>

##### Compressive Strengths (Prisms)

7 days	33.5 MN/m <sup>2</sup>
28 days	48.0 MN/m <sup>2</sup>

##### Consistence

Dropping ball penetration	12.22 MN/m <sup>2</sup>
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Elastic Modulus (non-standard test)	10.0 Kn/mm <sup>2</sup>
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#### FIRE

Class 0 (non-combustible)

#### WATER

Water/Cement Ratio	0.35
Consistence Retention	28%
Water Retention	92%
Wet Density	1.9 g/ml
Shrinkage	0.1% - 0.15%

##### Initial Surface Absorption

ml/m <sup>2</sup> minutes @ 10 minutes	4.75
ml/m <sup>2</sup> minutes @ 30 minutes	3.00

#### THERMAL EXPANSION

(non-standard test)	5-12 x 10 <sup>-6</sup> °C
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**NB:** The minimum overall recommended thickness for 2 coat system on a general application is 12mm. The minimum overall recommended thickness for 3 coat system on stainless steel rib lath is 16mm.

#### How to specify / product application

The application of Fibrocem is similar to standard renders, requiring the use of a stainless steel trowel, and straight edge rules. **The Code of Practice for Renders BS 5262 - 1991 and NBS Building Specification Section M20 should be followed.** For a full Fibrocem High Impact security Render Specification, and product application method, **Please contact our technical sales Department. On 01845 578555.**

#### Coverage



For each mm of thickness you will require approx 2.08 kg per m<sup>2</sup>. When applied at 12mm thick, coverage is approx 40 m<sup>2</sup> per tonne.

**Note:** These estimates take no account of wastage and may vary according to the type of surface involved. An allowance must be made for uneven and misaligned substrates when ordering materials.

#### DISCLAIMER

To the best of our knowledge and belief, this information is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Products are sold subject to our Standard Conditions of Sale and the end user should ensure that he has consulted our latest literature.