

# MONOCOUCHE

RENDER SYSTEMS

## MONOCOUCHE XF TECHNICAL FILES

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XF Maintenance & Repair

A1 Non-Combustibility Certification – One Coat

A1 Non-Combustibility Certification – Best Practice

Declaration of Performance

NHBC Accepts Certification

### Monocouche Render Systems

Unit B7, Phoenix Industrial Estate, Rosslyn Crescent, Harrow, HA1 2SP

T: 0330 111 1467 E: [info@monocouche.co.uk](mailto:info@monocouche.co.uk) W: [www.monocouche.co.uk](http://www.monocouche.co.uk)



## Installation Guide

**MONOCOUCHE XF**  
Through colour Cement based render system

## Monocouche XF Best Practice Installation Guide

### MASONRY APPLICATION - BEST PRACTICE

Monocouche XF can be installed onto 7kn general purpose concrete block, lighter weight and lessor density blockwork, brickwork, stonework and concrete with the support of a layer of MonoBase XF polymer modified base coat with MonoMesh XF imbedded throughout to prepare in what we advise to be best practice in all scenarios.

This comprehensive approach provides a consistent base layer without impurity that controls and equalizes suction onto which the through coloured Monocouche XF coating is applied thus going as far as possible to protect the render system against issues which may be caused due to the condition and behavior of the masonry substrate.

The addition of the MonoBase XF and MonoMesh XF layer provides greater resistance to movement within the substrate and increases protection against water penetration and weathering.

### MONOCOUCHE XF BEST PRACTICE

System: Monocouche XF

Colour: To be confirmed

Build up: Best Practice onto suitable and stable masonry

15mm UPVC beads bonded using Monocouche XF or MonoBase XF  
4mm layer of MonoBase XF applied over the entire substrate between the beads

MonoMesh XF imbedded into the entire MonoBase XF layer whilst wet overlapping strips by 100mm at each end and ensuring that it is all mesh pushed below the surface of the MonoBase XF base coat

A second layer of MonoMesh XF is imbedded diagonally passing all corners by 300mm to further reinforce this area

MonoBase XF is rolled to stipple or combed horizontally to key and left to cure sufficiently

Monocouche XF is hand or machine applied in the desired finish style level with the UPVC beading

Total system thickness: 15mm + depth of bead bedding material

System supplier: Monocouche Render Systems Ltd

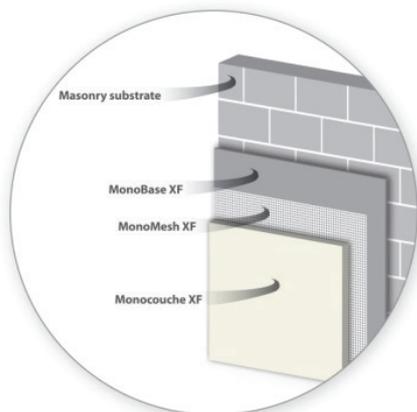
Contact: 0330 111 1467 / [info@monocouche.co.uk](mailto:info@monocouche.co.uk) / [www.monocouche.co.uk](http://www.monocouche.co.uk)

Comprehensive technical information and support can be found at [www.monocouche.co.uk](http://www.monocouche.co.uk)

It is advised that Monocouche Render Systems Ltd is consulted to gain a complete understanding of the system prior to commencement of works at site.

Samples: Available upon request

### MONOCOUCHE XF - BEST PRACTICE SPECIFICATION



MonoBase XF applied to 4mm thickness onto masonry

MonoMesh XF imbedded into entire MonoBase XF layer

Monocouche XF finished flush with 15mm UPVC beads

Total system thickness 15mm + depth of bead bedding

## Installation Guide

**MONOCOUCHE XF**  
Through colour Cement based render system

# Monocouche XF Direct "One Coat" Installation Guide

### MASONRY APPLICATION – ONE COAT

Monocouche XF can be applied in one coat onto suitable open faced 7kn general purpose concrete blockwork.

The masonry substrate should be constructed with a sufficient movement control design containing bed joint reinforcement and or expansion joints as per masonry manufacturers guidelines and in conjunction with BS 5628-3 Code of practice for use of masonry and BS 6093 Code of practice for design of joints and jointing in building construction.

The key to a successful one coat installation relies on the selection of a suitable block type, the management and control of materials and workmanship during the construction of the substrate and the inclusion of a suitable movement control design to ensure that the blockwork performs as it should when constructed.

Further guidance on constructing to receive Monocouche XF render in one coat can be found within the XF Construction Guide.

System: Monocouche XF

Colour: To be confirmed

Build up: Direct (One coat) onto suitably constructed blockwork

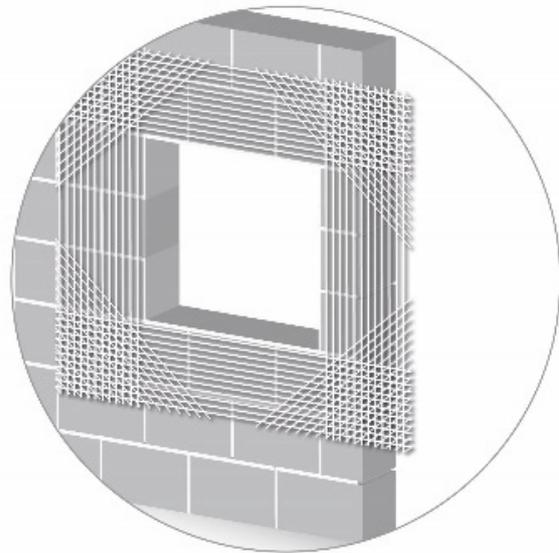
15mm UPVC beads bonded using Monocouche XF or MonoBase XF material only

MonoMesh XF is imbedded into a layer of Monocouche XF to surround openings passing edges by 500mm

A second layer of MonoMesh XF is imbedded diagonally passing all corners by 300mm to further reinforce this area

Monocouche XF is hand or machine applied in the desired finish style level with the UPVC beading

Total system thickness: 15mm + depth of bead bedding material



MonoMesh XF alkali resistant mesh is imbedded into the Monocouche XF or MonoBase XF at material junctions and surrounding openings to absorb stress.

Diagonal strips of MonoMesh XF (stress patches) are added to further reinforce across the corners of openings.

System supplier: Monocouche Render Systems Ltd

Contact: 0330 111 1467 / [info@monocouche.co.uk](mailto:info@monocouche.co.uk) / [www.monocouche.co.uk](http://www.monocouche.co.uk)

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Samples: Available upon request

# MONOCOUCHE

RENDER SYSTEMS

## Monocouche XF Render Thickness Guidance (Based on NHBC Exposure Map)

**MONOCOUCHE XF**  
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Exposure levels for buildings are calculated using a method defined in cycles of wet and drying conditions called spells and are measured in litres/m<sup>2</sup> /spell. As part of the process, consideration should be given to location, orientations and surrounding environment, such as exposure to the force of wind and rain combined with protection from overhangs or surrounding buildings.



Recommended minimum thickness of Monocouche XF render system based on exposure zones

- Sheltered – 15mm
- Moderate – 15mm
- Severe – 15mm
- Very Severe – 20mm

Exposure zones	Exposure to wind-driven rain (litres/m <sup>2</sup> per spell)
Very severe	100 or more
Severe	56.5 to less than 100
Moderate	33 to less than 56.5
Sheltered	Less than 33

### Monocouche Render Systems

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## TECHNICAL DATA SHEET

**MONOCOUCHE XF**  
Through colour Cement based render system

### Monocouche XF

Monocouche XF is our breathable through colour cement based render system available in a stunning range of colours typically scratch finished but also able to achieve a number of more traditional styles such as rough cast, sponge and trowel finish.

Monocouche XF can be installed onto blockwork, brickwork, stonework, concrete and most other forms of stable masonry.



#### Masonry Application – One Coat

Monocouche XF can be applied in one coat onto suitable open faced 7kn general purpose concrete blockwork.

The masonry substrate should be constructed with a sufficient movement control design containing bed joint reinforcement and or expansion joints as per masonry manufacturers guidelines and in conjunction with BS 5628-3 Code of practice for use of masonry and BS 6093 Code of practice for design of joints and jointing in building construction.

The key to a successful one coat installation relies on the selection of a suitable block type, the management and control of materials and workmanship during the construction of the substrate and the inclusion of a suitable movement control design to ensure that the blockwork performs as it should when constructed.

#### Masonry Application - Best Practice

Monocouche XF can be installed onto 7kn general purpose concrete block, lighter weight and lessor density blockwork, brickwork, stonework and concrete with the support of a layer of MonoBase XF polymer modified base coat with MonoMesh XF imbedded throughout to prepare in what we advise to be best practice in all scenarios.

This comprehensive approach provides a consistent base layer without impurity that controls and equalises suction onto which the through coloured Monocouche XF coating is applied thus going as far as possible to protect the render system against issues which may be caused due to the condition and behaviour of the masonry substrate.

## STORAGE AND PACKING

25kg polypropylene reinforced Kraft bags.  
40 bags per pallet weighing 1 tonne.

## LIFE SPAN IN STORAGE

12 months from the date of manufacture if stored in unopened original package; under dry, frost free conditions.

## MATERIAL COVERAGE GUIDANCE

A 25kg bag will cover up to 1m<sup>2</sup> at 15mm thickness  
A 25kg bag will cover up to 0.7m<sup>2</sup> at 20mm thickness

## MATERIAL COVERAGE GUIDANCE

Masonry substrates should be stable, clean, suitably dry and free from dust and loose material.

Newly constructed masonry should be allowed to dry sufficiently before render system install.

Mortar jointing should be flushed level with the surrounding masonry.

Levelling preparation should be carried out with MonoBase XF.

Direct contact with the masonry should be made without contamination.

Wiring and pipework for external accessories should be chased into the masonry and placed in a suitable conduit.

Do not apply to gypsum plaster or painted surfaces.

## WEATHER CONDITIONS DURING INSTALL

Do not apply in temperatures below 5c and above 30c.

Do not apply immediately before a frost or heavy rain.

Precautions should be taken to protect the material from heavy and continuous wind during curing.

## MIXING OF MATERIAL

No other materials (lime, cement, gypsum etc.) should be added to the prepared mortar – the product is factory batched, pre blended, only requiring water to be added to achieve the desired consistency.

## SAFETY INFORMATION

As it is a cement based product, avoid contact with skin and eyes, wash immediately with fresh clean water. Wear eye protection and gloves at all times when installing with the addition of a suitable face fitted mask when mixing. In case of emergency consult your doctor or local A&E department.

## COMPREHENSIVE TECHNICAL SUPPORT

Monocouche Render Systems Ltd

Contact: 0330 111 1467 / [info@monocouche.co.uk](mailto:info@monocouche.co.uk) / [www.monocouche.co.uk](http://www.monocouche.co.uk)

Comprehensive technical information and support can be found at [www.monocouche.co.uk](http://www.monocouche.co.uk)

It is advised that Monocouche Render Systems Ltd is consulted to gain a complete understanding of the system prior to commencement of works at site.

## SYSTEM SAMPLES

Samples: Available upon request  
[www.monocouche.co.uk](http://www.monocouche.co.uk)

## INSTALLATION GUIDANCE

1. Monocouche XF should be mixed consistently and applied on to the elevation by hand or with ready mix plaster mixing machine.
2. Monocouche XF can be applied in "one coat" up to 20mm thick, the water ratio has to be kept constant throughout the application.
3. The material should be flattened and levelled using a toothed derby or straight edge to remove any trapped air.
4. Trowels or spatulas can then be used to close up and smooth over ready for the scratching process.

5. Depending on weather conditions, when the surface is hard enough, it should first be scraped with an I Bar section to achieve a partially scraped flat surface. The timing to start this process is when the material does not block the nails of the scraping tool.
6. Final and detailed scraping is then completed using a nail float to leave a consistent textured finish.
7. Once sufficiently cured a soft brush should be used over the entire surface to remove any remaining laitance.
8. During the warmer spring and summer months application and finish can be achieved on the same day.  
During colder winter months, the application is made on different days and ideally under the same weather conditions to prevent colour variance.
9. We strongly recommend only approved applicators apply Monocouche Render Systems products.

For a list of approved applicators email: [info@monocouche.co.uk](mailto:info@monocouche.co.uk).

## TECHNICAL DATA

1. Product: Monocouche XF
2. Manufacturer:  
Monocouche Render Systems Ltd with address in:  
Unit B7, Phoenix Industrial Estate  
Rosslyn Crescent, Harrow HA1 2SP. United Kingdom
3. Intended use:  
One coat mortar, MONOCOUCHE XF, type OC CSIII W2, to coat façades with rough finish, rainwater proof and permeable to water vapour.
4. Evaluation System: 4
5. Declared performances:

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	A1	EN-998-1:2018
Water absorption	W2	
Water permeability after climatic cycles	≤1 ml/cm <sup>2</sup> after 48 hours	
Water vapour permeability	μ ≤ 15	
Thermal conductivity (λ <sub>10, DRY</sub> )	0,45 (tabulated)	
Adhesion after climatic cycles	≥0.3 N/mm <sup>2</sup> failure A/B	
Durability	Evaluation based on adhesion and water permeability after climatic cycles	
Hazardous substances:	See safety datasheet	

The performances of the product identified in point 1 comply with the performance declared in point 5.

This declaration of features is issued under the sole responsibility of manufacturer stated in point 2.

Signed by and on manufacturer behalf:

Place and date of issue: Harrow, 01/09/2021

The performances of the product identified in point 1 comply with the performance declared in point 5.

This declaration of features is issued under the sole responsibility of manufacturer stated in point 2.

The information here above was obtained in laboratory conditions. If more information is needed, please consult to the technical department prior to commencing the installation. Monocouche Render Systems holds the rights to the above information. Issues arising from the incorrect application of the Monocouche XF system are not the responsibility of Monocouche Render Systems Limited.

ALWAYS USE AN APPROVED APPLICATOR.

## TECHNICAL DATA SHEET

**MONOCOUCHE XF**  
Through colour Cement based render system

### Monobase XF

MonoBase XF is our cement based, breathable high polymer base coat manufactured for use in conjunction with the Monocouche XF render system. MonoBase XF is used to improve the key of smoother masonry surfaces and control and equalise the suction across a mixture of stable masonry substrates.

The addition of a MonoBase XF and MonoMesh XF layer provides greater resistance to movement within the substrate and increases protection against water penetration and weathering.



#### Masonry Application - Best Practice

Monocouche XF can be installed onto 7kn general purpose concrete block, lighter weight and lessor density blockwork, brickwork, stonework and concrete with the support of a layer of MonoBase XF polymer modified base coat with MonoMesh XF imbedded throughout to prepare in what we advise to be best practice in all scenarios.

This comprehensive approach provides a consistent base layer without impurity that controls and equalises suction onto which the through coloured Monocouche XF coating is applied thus going as far as possible to protect the render system against issues which may be caused due to the condition and behaviour of the masonry substrate

## STORAGE AND PACKING

25kg polypropylene reinforced Kraft bags.  
40 bags per pallet weighing 1 tonne.

## LIFE SPAN IN STORAGE

12 months from the date of manufacture if stored in unopened original package; under dry, frost free conditions.

## MATERIAL COVERAGE GUIDANCE

A 25kg bag will cover up to 4m<sup>2</sup> at 4mm thickness

## MAXIMUM THICKNESS

MonoBase XF should be applied to a maximum thickness of 10mm, if further layers are required stainless steel EML should be considered to support the weight of the material.

Please seek technical advice regarding additional thickness.

## MASONRY SUBSTRATE CONDITION

Masonry substrates should be stable, clean, suitably dry and free from dust and loose material.

Newly constructed masonry should be allowed to dry sufficiently before render system install.

Direct contact with the masonry should be made without contamination.

Wiring and pipework for external accessories should be chased into the masonry and placed in a suitable conduit.

Do not apply to gypsum plaster or painted surfaces.

## MONOCOUCHE XF & RENDER CARRIER BOARD

Monocouche XF will bond successfully to render carrier boards with the support of MonoBase XF and MonoMesh XF however there is an unknown risk of movement within the supporting timber or steel framework which may cause deflection then forcing the render to crack and for this reason Monocouche XF is not guaranteed in these applications and a thin coat silicone render should be considered.

## WEATHER CONDITIONS DURING INSTALL

Do not apply in temperatures below 5c and above 30c.

Do not apply immediately before a frost or heavy rain.

Precautions should be taken to protect the material from heavy and continuous wind during curing.

## MIXING OF MATERIAL

No other materials (lime, cement, gypsum etc.) should be added to the prepared mortar – the product is factory batched, pre blended, only requiring water to be added to achieve the desired consistency.

## SAFETY INFORMATION

As it is a cement based product, avoid contact with skin and eyes, wash immediately with fresh clean water. Wear eye protection and gloves at all times when installing with the addition of a suitable face fitted mask when mixing. In case of emergency consult your doctor or local A&E department.

## COMPREHENSIVE TECHNICAL SUPPORT

Monocouche Render Systems Ltd

Contact: 0330 111 1467 / [info@monocouche.co.uk](mailto:info@monocouche.co.uk) / [www.monocouche.co.uk](http://www.monocouche.co.uk)

Comprehensive technical information and support can be found at [www.monocouche.co.uk](http://www.monocouche.co.uk)

It is advised that Monocouche Render Systems Ltd is consulted to gain a complete understanding of the system prior to commencement of works at site.

## SYSTEM SAMPLES

Samples: Available upon request  
[www.monocouche.co.uk](http://www.monocouche.co.uk)

## INSTALLATION GUIDANCE

1. MonoBase XF should be mixed consistently and applied on to the elevation by hand or with ready mix plaster mixing machine.
2. MonoBase XF can be applied in one coat up to 5mm thick, if you wish to increase the thickness to 10mm a second 5mm layer should be added when the first coat is suitably cured.
3. The water ratio should be kept constant throughout the mixing and application process.
4. MonoMesh XF should be imbedded into the MonoBase XF layer whilst wet ensuring that all mesh is below the surface.
5. The material can then be keyed for grip using a scratch/key comb or heavy piled roller again whilst wet.
6. Once suitably dry the Monocouche XF system can then be applied.
7. Monocouche XF can be applied to green mostly cured MonoBase XF however the wetter the base coat the longer the Monocouche XF will take to cure and we suggest that MonoBase XF should be allowed to dry at least overnight before the Monocouche XF is added.
8. We strongly recommend only approved applicators apply Monocouche Render Systems products.

For a list of approved applicators email: [info@monocouche.co.uk](mailto:info@monocouche.co.uk).

## TECHNICAL DATA

Product: MonoBase XF

2. Manufacturer:

Monocouche Render Systems Ltd with address in:

Unit B7, Phoenix Industrial Estate

Rosslyn Crescent, Harrow HA1 2SP. United Kingdom

3. Intended use:

General purpose rendering and plastering mortar MonoBase XF, type GP for exterior rendering with application by hand or with a spray machine, waterproof to rain.

4. Evaluation System: 4

5. Declared performances :

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	A1	EN-998-1:2018
Water absorption	W2	
Water vapour permeability	$\mu \leq 15$	
Thermal conductivity ( $\lambda_{10, DRY}$ )	0,61 (tabulated)	
Adhesion after climatic cycles	$\geq 0.3$ N/mm <sup>2</sup> failure A/B	
Durability	Evaluation based on provisions valid in the intended place of use of the mortar	
Hazardous substances:	See safety datasheet	

The performances of the product identified in point 1 comply with the performance declared in point 5.

This declaration of features is issued under the sole responsibility of manufacturer stated in point 2.

The information here above was obtained in laboratory conditions. If more information is needed, please consult to the technical department prior to commencing the installation. Monocouche Render Systems holds the rights to the above information. Issues arising from the incorrect application of the Monocouche XF system are not the responsibility of Monocouche Render Systems Limited.  
**ALWAYS USE AN APPROVED APPLICATOR.**

## TECHNICAL DATA SHEET

### MonoMesh XF

MonoMesh XF is our high tensile strength, flexible alkali resistant mesh manufactured for use in the Monocouche XF system.

Once imbedded into the Monocouche XF or MonoBase XF layer the XF system has greatly improved resistance to cracking due to movement within the masonry substrate. When applied throughout the MonoBase XF layer in what we state is best practice a high strength bandage envelopes the entire elevation or building and thus goes as far as possible to offer resistant to movement whilst providing increased resistance to impact.

#### Masonry Application - Best Practice

Monocouche XF can be installed onto 7kn general purpose concrete block, lighter weight and lessor density blockwork, brickwork, stonework and concrete with the support of a layer of MonoBase XF polymer modified base coat with MonoMesh XF imbedded throughout to prepare in what we advise to be best practice in all scenarios.

This comprehensive approach provides a consistent base layer without impurity that controls and equalises suction onto which the through coloured Monocouche XF coating is applied thus going as far as possible to protect the render system against issues which may be caused due to the condition and behaviour of the masonry substrate

#### STORAGE AND PACKING

7kg per roll to be stored in a dry and frost free environment.  
30 rolls per pallet weighing 210kg.

#### MATERIAL COVERAGE GUIDANCE

Roll dimensions: 50m x 1m (50m<sup>2</sup>)  
A 50m<sup>2</sup> roll will cover 45m<sup>2</sup> allowing for 100mm overlaps.

#### KEY FEATURES

- 100% fibre glass
- Excellent tensile strength
- High resistance to alkalis
- Easy to cut and install
- Good flexibility
- Improved resistance to cracking
- Improved impact resistance
- ISO 9001 certified
- Fire proof

## SAFETY INFORMATION

Handling this product does not require any special precautions however gloves may be used to avoid cuts to hands and or irritation to highly sensitive skin. In case of emergency consult your doctor or local A&E department.

## COMPREHENSIVE TECHNICAL SUPPORT

Monocouche Render Systems Ltd

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It is advised that Monocouche Render Systems Ltd is consulted to gain a complete understanding of the system prior to commencement of works at site.

## SYSTEM SAMPLES

Samples: Available upon request

[www.monocouche.co.uk](http://www.monocouche.co.uk)

## INSTALLATION GUIDANCE

1. MonoMesh XF must always be installed sandwiched between two layers of render material.
2. A thin layer of Monocouche XF should be applied over the entire area before pushing the MonoMesh well into the initial coat, a final layer of Monocouche XF is then applied to encapsulate the mesh fully.
3. Care must be taken to ensure that all of the mesh is pushed into the first Monocouche XF layer so that it does not show through and out of the finished layer.
4. In the case of preparing with a 4mm MonoBase XF layer the entire 4mm base coat can be applied and then the MonoMesh XF can be pushed down into the MonoBase XF. Monocouche XF is then applied over the top with no risk of the mesh showing through.
8. We strongly recommend only approved applicators apply Monocouche Render Systems products.

For a list of approved applicators email:

[info@monocouche.co.uk](mailto:info@monocouche.co.uk).

## TECHNICAL DATA

Composition: 100% fibre glass

Roll size: 50m x 1m

Mesh Pitch: 10mm x 10mm

Total weight: 130 – 140 gr/m<sup>2</sup>

Tensile strength: 1600N/500mm (±10%)

Elongation: 3.5%

Chemical resistant: Good resistance to alkalis

The information here above was obtained in laboratory conditions. If more information is needed, please consult to the technical department prior to commencing the installation. Monocouche Render Systems holds the rights to the above information. Issues arising from the incorrect application of the Monocouche XF system are not the responsibility of Monocouche Render Systems Limited. ALWAYS USE AN APPROVED APPLICATOR.

### SAFETY DATA SHEET

**MONOCOUCHE** **XF**  
Through colour Cement based render system

## Monocouche XF & MonoBase XF

#### PRODUCTS

Monocouche XF & MonoBase XF

Chemical Nature

Odourless powders, containing Portland cement, granular materials and small quantities of other additives.

#### MANUFACTURER

Monocouche Render Systems Ltd with address in:  
Unit B7, Phoenix Industrial Estate  
Rosslyn Crescent, Harrow HA1 2SP. United Kingdom

#### COMPOSITION

Portland cement, lime, graded aggregates, fillers and small quantities of other Additives Contains: Portland cement (CAS No. 65997-15-1)  
EEC Symbol: Xi R Phrases: 36/38

#### HAZARDS IDENTIFICATION

Contains chromium (VI). May produce allergic reaction. When mixed with water or contact of powder with body fluids produces a strongly alkaline solution. This may cause serious burns and ulceration both to the skin and eyes.

All Portland cement based products, until set, may cause dermatitis due to either their high alkalinity or hexavalent chromium salts present in Portland cement

#### FIRST AID MEASURES

##### SKIN CONTACT:

Wash the affected area thoroughly with soap and water. If irritation continues seek medical advice. Clothing contaminated with wet product should be removed and washed thoroughly before reuse.

##### EYE CONTACT:

Wash eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice without delay.

##### INHALATION:

Move affected person to fresh air. If nose or airways become inflamed seek medical attention

##### INGESTION:

If swallowing has occurred do not induce vomiting.

Give person plenty of water to drink. Seek medical attention

#### PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Particulate

Particle size: 5 - 2000 microns

PH: pH of wet cement 12 – 14

#### STABILITY AND REACTIVITY

Stable under normal room temperature storage conditions. Bags will set solid if continually soaked with water

#### TOXICOLOGICAL INFORMATION

##### Eye Contact

Cement constituent is severe eye irritant. Mild exposures can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye.

##### Skin Contact

The powder or product/water mixture may cause irritation, contact dermatitis or allergic dermatitis and/or burns.

##### Inhalation

Inhalation of the powder may cause inflammation of mucous membranes.

##### Ingestion

The swallowing of small amounts of product or product /water mixtures is unlikely to cause any significant reaction. Larger doses may result in irritation to the gastro intestinal tract

#### ECOLOGICAL INFORMATION

##### Aquatic Toxicity Rating

LC50 aquatic toxicity rating not determined. The addition of Portland cement based products to water may, however, cause the pH to rise and therefore may be toxic to aquatic life in some circumstances.

No other specific information available Cement based EWI Mar-06 Page 4

#### FIRE-FIGHTING MEASURES

Portland cement based products are not flammable and will not facilitate combustion of other materials.

##### Exposure hazards

Do not release water contaminated with Portland cement into surface water drains.

## ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Avoid contact with skin, eyes and clothing.

Avoid breathing dust

### Environmental Precautions

Prevent contamination of surface water

### Methods for Cleaning

Recover spillage in dry state if possible. Minimise generation of airborne dust. The product can be slurried with water. Keep children away from clean up operations. Dispose to a place authorised to accept builder's waste. Small quantities can be disposed of as normal household waste

## HANDLING AND STORAGE

### Handling

When handling bags of Portland cement based products, due regard should be paid to Manual Handling Operations Regulations 1992.

Some bags may have a small amount of cement dust on their outer surface. Appropriate personal protection should be used whilst handling.

### Storage

Bags should be stacked in a safe and stable manner.

Store in dry conditions.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

### Technical Protective Measures

No special measures required

### Exposure Limits

Workplace Exposure Limits 8 hour TWA

(According to EH40/05)

Total inhalable dust: 10mg/m<sup>3</sup>

Cement based EWI Mar-06 Page 3

Respirable dust: 4mg/m<sup>3</sup>

### Respiratory Protection

Suitable respiratory protection should be worn to ensure that personal WEL is not exceeded. If care is taken not to raise dust during handling the use of respirators is not normally necessary

### Hand Protection

Wear suitable gloves

### Eye Protection

Suitable goggles or face protection should be worn wherever there is a risk of product powder or product/water mixture entering the eye

### Skin Protection

Wear overalls and closed footwear

## DISPOSAL CONSIDERATIONS

Dispose of empty bags or surplus product to place authorised to accept builder's waste. Keep out of reach of children.

## TRANSPORT INFORMATION

Classification for Transport not required

## REGULATORY INFORMATION

Symbol: Xi Irritant

Contains: Portland cement CAS No.65997-15-1.

Contains chromium (VI). May produce allergic reaction.

R Phrases:

R36/38: Harmful to eyes and skin

S Phrases:

S28: After contact with skin, wash immediately with plenty of soap and water.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye/face protection.

Keep out of reach of children

## COMPREHENSIVE TECHNICAL SUPPORT

Monocouche Render Systems Ltd

Contact: 0330 111 1467 / [info@monocouche.co.uk](mailto:info@monocouche.co.uk) / [www.monocouche.co.uk](http://www.monocouche.co.uk)

Comprehensive technical information and support can be found at [www.monocouche.co.uk](http://www.monocouche.co.uk)

It is advised that Monocouche Render Systems Ltd is consulted to gain a complete understanding of the system prior to commencement of works at site.

## SYSTEM SAMPLES

Samples: Available upon request

[www.monocouche.co.uk](http://www.monocouche.co.uk)

## COSH DATA SHEET

**MONOCOUCHE XF**  
Through colour Cement based render system

## Monocouche XF & MonoBase XF

### PRODUCTS

Monocouche XF & MonoBase XF

Chemical Nature

Odourless powders, containing Portland cement, granular materials and small quantities of other additives.

### MANUFACTURER

Monocouche Render Systems Ltd with address in:

Unit B7, Phoenix Industrial Estate

Rosslyn Crescent, Harrow HA1 2SP. United Kingdom

### COMPOSITION

Portland cement, lime, graded aggregates, fillers and small quantities of other Additives

Contains: Portland cement (CAS No. 65997-15-1)

EEC Symbol: Xi R Phrases: 36/38

### HAZARDS IDENTIFICATION

Contains chromium (VI). May produce allergic reaction.

When mixed with water or contact of powder with body fluids produces a strongly alkaline solution. This may cause serious burns and ulceration both to the skin and eyes.

All Portland cement based products, until set, may cause dermatitis due to either their high alkalinity or hexavalent chromium salts present in Portland cement.

### FIRST AID MEASURES

SKIN CONTACT:

Wash the affected area thoroughly with soap and water. If irritation continues seek medical advice. Clothing contaminated with wet product should be removed and washed thoroughly before reuse.

EYE CONTACT:

Wash eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice without delay.

INHALATION:

Move affected person to fresh air. If nose or airways become inflamed seek medical attention

INGESTION:

If swallowing has occurred do not induce vomiting. Give person plenty of water to drink.

Seek medical attention

### FIRE-FIGHTING MEASURES

Portland cement based products are not flammable and will not facilitate combustion of other materials.

Exposure hazards

Do not release water contaminated with Portland cement into surface water drains.

### ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin, eyes and clothing. Avoid breathing dust

Environmental Precautions

Prevent contamination of surface water

Methods for Cleaning

Recover spillage in dry state if possible. Minimise generation of airborne dust. The product can be slurried with water. Keep children away from clean up operations.

Dispose to a place authorised to accept builder's waste. Small quantities can be disposed of as normal household waste.

### HANDLING AND STORAGE

Handling

When handling bags of Portland cement based products, due regard should be paid to Manual Handling Operations Regulations 1992.

Some bags may have a small amount of cement dust on their outer surface.

Appropriate personal protection should be used whilst handling.

Storage

Bags should be stacked in a safe and stable manner. Store in dry conditions.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical Protective Measures

No special measures required

Exposure Limits

Workplace Exposure Limits 8 hour TWA (According to EH40/05)

Total inhalable dust: 10mg/m<sup>3</sup>

Respirable dust: 4mg/m<sup>3</sup>

Respiratory Protection

Suitable respiratory protection should be worn to ensure that personal WEL is not exceeded. If care is taken not to raise dust during handling the use of respirators is not normally necessary

Hand Protection

Wear suitable gloves

Eye Protection

Suitable goggles or face protection should be worn wherever there is a risk of product powder or product/water mixture entering the eye

Skin Protection

Wear overalls and closed footwear

## PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Particulate

Particle size: 5 - 2000 microns

PH: pH of wet cement 12 – 14

## STABILITY AND REACTIVITY

Stable under normal room temperature storage conditions. Bags will set solid if continually soaked with water

## TOXICOLOGICAL INFORMATION

Eye Contact

Cement constituent is severe eye irritant. Mild exposures can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye.

Skin Contact

The powder or product/water mixture may cause irritation, contact dermatitis or allergic dermatitis and/or burns.

Inhalation

Inhalation of the powder may cause inflammation of mucous membranes.

Ingestion

The swallowing of small amounts of product or product /water mixtures is unlikely to cause any significant reaction. Larger doses may result in irritation to the gastro intestinal tract.

## ECOLOGICAL INFORMATION

Aquatic Toxicity Rating

LC50 aquatic toxicity rating not determined. The addition of Portland cement based products to water may, however, cause the pH to rise and therefore may be toxic to aquatic life in some circumstances.

No other specific information available

## DISPOSAL CONSIDERATIONS

Dispose of empty bags or surplus product to place authorised to accept builder's waste.

Keep out of reach of children.

## TRANSPORT INFORMATION

Classification for Transport not required

## REGULATORY INFORMATION

Symbol: Xi Irritant

Contains: Portland cement CAS No.65997-15-1. Contains chromium (VI). May produce allergic reaction.

R Phrases:

R36/38: Harmful to eyes and skin

S Phrases:

S28: After contact with skin, wash immediately with plenty of soap and water.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37/39: Wear suitable gloves and eye/face protection.

Keep out of reach of children

## COMPREHENSIVE TECHNICAL SUPPORT

Monocouche Render Systems Ltd

Contact: 0330 111 1467 / [info@monocouche.co.uk](mailto:info@monocouche.co.uk) / [www.monocouche.co.uk](http://www.monocouche.co.uk)

Comprehensive technical information and support can be found at [www.monocouche.co.uk](http://www.monocouche.co.uk)

It is advised that Monocouche Render Systems Ltd is consulted to gain a complete understanding of the system prior to commencement of works at site.

## SYSTEM SAMPLES

Samples: Available upon request

[www.monocouche.co.uk](http://www.monocouche.co.uk)

## MAINTANANCE & REPAIR SHEET

### MONOCOUCHE **XF** Through colour Cement based render system

## Monocouche XF Maintenance & Repair

### SYSTEM IN BRIEF

Monocouche XF is low maintenance cement based through colour render system

### CLEANING METHOD

Monocouche XF can be cleaned using clean water, a brush and hose or if required at higher pressure using a powered washer system, depending on the level of dirt build up an eco-friendly cleaning detergent or traffic film remover can be added to the aid the process.

Care must be taken when using a pressure washer so as not to damage the material and the distance from the wall which the lance is held should be consistent to achieve an even depth of clean and therefore uniform appearance.

The frequency of the cleaning operation is completely dependent on the amount of airborne dirt or contamination present and suffered within the environment of the Monocouche XF coating.

### EXCESSIVE BUILD-UP OF DIRT AND STAINING

Tired and dirtied elevations can be coated with colour matching MonoMend RXF to rejuvenate the existing coating, the entire elevation or aspect should be treated to avoid mismatching of shades due to weathering.

The substrate should be clean and free from all dust and dirt prior to this operation going ahead.

See cleaning method above

### REPAIR CONSTRAINTS

The nature of a textured finish means that the removal and the re installation of areas within the overall textured pattern can be extremely difficult to carry out without leaving visible edges, for this reason we advise that the best method of repair is always complete removal of the affected panel and then re installation of Monocouche XF using a MonoBase XF base coat to support, repair and stabilize the now potentially slightly damaged substrate.

### HAIRLINE CRACK REPAIR

It is fundamental that the cause of hairline cracking is understood and if required addressed prior to the execution of the repair, cracking is not typical of a render failure, but more likely a reflection of a crack within the substrate due a form of movement which has not been controlled or prevented may it be thermal or initial shrinkage and settlement of the property.

If after structural investigation it is deemed that movement is no longer occurring and the decision is taken by stakeholders to go forward and repair the flexible colour matching MonoFill RXF can be injected into cracks up to 2mm in width.

MonoFill RXF may appear brighter than the established coating and may highlight the cracking initially but will equalize in time and after sufficient weathering.

### LOCAL REPAIRS OF KNOCKS AND DENTS

If it is deemed viable to repair a dented or scraped area within a finished elevation without removing the entire panel the affected area should be cut out within a square using a disc type cutter and diamond type blade to achieve a neat defined edge.

Dust and debris should then be removed and washed out from the cut out prior and water should be used to suitably dampen the area. A suitably robust tape should be fixed tightly around the hole to allow the new Monocouche XF to be applied slightly proud of the existing render and the scratching back process not to damage the existing render.

New repairs will take time to equalise with the surrounding now fully cured and weathered render coating.

If after review of the finished repair it is felt that the edges of the damage or repairs are unacceptably visible the MonoMend RXF coating could be applied to the entire panel or elevation to better hide and equalise the repairs with the surrounding area.

**The success of the above methods of cleaning and or repair are completely dependent on the skill and experience of the operative/s carrying out the works, these works should be considered as highly specialist and should only be carried out by approved and experienced Monocouche XF system installers.**

## **REACTION TO FIRE - CLASSIFICATION REPORT Nr. EUI-24-000326B**

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### **1. INTRODUCTION**

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This classification report defines the classification assigned to Monocouche XF – One Coat in accordance with the procedures given in BS EN 13501-1:2018.

## **REACTION TO FIRE CLASSIFICATION IN ACCORDANCE WITH BS EN 13501-1:2018**

<b>Sponsor:</b>	Monocouche Render Systems Ltd Unit B7, Phoenix Industrial Estate Rosslyn Crescent Harrow HA1 2SP United Kingdom
<b>Product name:</b>	Monocouche XF – One Coat
<b>Classification report No.:</b>	EUI-24-000326B
<b>Issue number:</b>	1
<b>Date of issue:</b>	13 <sup>th</sup> August 2024

**This classification report consists of five pages and may only be used or reproduced in its entirety.**

## 2. DOCUMENT TRACKING

Revision Index.	Modification
0	Original document

## 3. DESCRIPTION OF THE PRODUCT

### 3.1. GENERAL

The product, Monocouche XF – One Coat, is defined as a render system

### 3.2. PRODUCT DESCRIPTION

The product, Monocouche XF – One Coat, is described below, or is described in the reports provided in support of classification listed in §4.1.

Product description		
<b>Trademark</b>	Monocouche XF – One Coat	
<b>Manufacturer / supplier</b>	Monocouche Render Systems Ltd Unit B7, Phoenix Industrial Estate Rosslyn Crescent Harrow HA1 2SP United Kingdom	
<b>Composition</b>	<b>Mesh imbedded in the centre of the render (MonoMesh XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.
	<b>Render (Monocouche Render XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.
<b>Thickness</b>	15 mm	
<b>Mass per unit area</b>	25 kg/m <sup>2</sup>	
<b>Density</b>	1666 kg/m <sup>3</sup>	
<b>Colour</b>	Various	
<b>Fire retardant</b>	No	
<b>Other information</b>	-	

#### 4. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

##### 4.1. REPORTS

Name of Laboratory	Name of sponsor	Report ref. no	Test method and date field of application rules and date
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-HC-000326B	<b>BS EN ISO 1716:2018</b>
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-HC-000326C	<b>BS EN ISO 1716:2018</b>
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-NC-000326B	<b>BS EN ISO 1182:2020</b>

##### 4.2. RESULTS

Test method and test number	Parameter	No. Tests <sup>a)</sup>	Results			Compliance with parameters
			Continuous parameter - mean (m)			
<b>BS EN ISO 1716:2018</b> EUI-24-HC-000326B EUI-24-HC-000326C	PCS (MJ/kg) GCV (MJ/kg)	3	MonoMesh XF	6.9 MJ/kg	0.8 MJ/m <sup>2</sup>	-
		3	Monocouche Render XF (Brick red)	0.0 MJ/kg	0.0 MJ/m <sup>2</sup>	
		3	Monocouche Render XF (Earth dark)	0.0 MJ/kg	0.0 MJ/m <sup>2</sup>	
		3	Monocouche Render XF (Nimbus white)	0.0 MJ/kg	0.0 MJ/m <sup>2</sup>	
		-	Product as a whole	<b>0.0</b> MJ/kg	<b>0.8</b> MJ/m <sup>2</sup>	
<b>BS EN ISO 1182:2020</b> EUI-24-NC-000326B Monocouche Render XF (Brick red)	Temperature rise	5	4			-
$\Delta m$ (%) Mass loss	12			-		
$t_f$ (s) Duration of sustained flaming	0			-		
a) Not for extended application (-) means not applicable.						

**5. CLASSIFICATION AND FIELD OF APPLICATION**

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**5.1. REFERENCE OF CLASSIFICATION**

This classification has been carried out in accordance with BS EN 13501-1:2018.

**5.2. CLASSIFICATION**

The product, Monocouche XF – One Coat, in relation to its reaction to fire behaviour is classified:

**A1**

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

<b>Fire behaviour</b>
<b>A1</b>

i.e., **A1**

<b>Reaction to fire classification</b>	<b>A1</b>
--	-----------

**5.3. FIELD OF APPLICATION**

This classification is valid for the following product parameters and end-use applications:

Density	Valid for the tested density
Type of mesh	Valid only for the tested mesh with PCS of 1.4 MJ/m <sup>2</sup> or lower
Type of product/ facings	Valid for tested type of product only (same formulation)
Colour	Valid for all colours of Monocouche Render XF

**6. LIMITATIONS**

---

This classification document does not represent type approval or certification of the product.

**SIGNED**



Mohamad Aloulou  
Project leader

**APPROVED**



Maurice MCKEE  
Lab Manager

## **REACTION TO FIRE - CLASSIFICATION REPORT Nr. EUI-24-000326A**

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### **1. INTRODUCTION**

---

This classification report defines the classification assigned to Monocouche XF – Best Practice in accordance with the procedures given in BS EN 13501-1:2018.

## **REACTION TO FIRE CLASSIFICATION IN ACCORDANCE WITH BS EN 13501-1:2018**

<b>Sponsor:</b>	Monocouche Render Systems Ltd Unit B7, Phoenix Industrial Estate Rosslyn Crescent Harrow HA1 2SP United Kingdom
<b>Product name:</b>	Monocouche XF – Best Practice
<b>Classification report No.:</b>	EUI-24-000326A
<b>Issue number:</b>	1
<b>Date of issue:</b>	13 <sup>th</sup> August 2024

**This classification report consists of six pages and may only be used or reproduced in its entirety.**

## 2. DOCUMENT TRACKING

Revision Index.	Modification
0	Original document

## 3. DESCRIPTION OF THE PRODUCT

### 3.1. GENERAL

The product, Monocouche XF – Best Practice, is defined as a render system

### 3.2. PRODUCT DESCRIPTION

The product, Monocouche XF – Best Practice, is described below, or is described in the reports provided in support of classification listed in §4.1.

Product description							
<b>Trademark</b>	Monocouche XF – Best Practice						
<b>Manufacturer / supplier</b>	Monocouche Render Systems Ltd Unit B7, Phoenix Industrial Estate Rosslyn Crescent Harrow HA1 2SP United Kingdom						
<b>Composition</b>	<table border="1"> <tr> <td><b>Basecoat (MonoBase XF)</b></td> <td>Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.</td> </tr> <tr> <td><b>Mesh imbedded in the centre of the basecoat (MonoMesh XF)</b></td> <td>Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.</td> </tr> <tr> <td><b>Render (Monocouche Render XF)</b></td> <td>Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.</td> </tr> </table>	<b>Basecoat (MonoBase XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.	<b>Mesh imbedded in the centre of the basecoat (MonoMesh XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.	<b>Render (Monocouche Render XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.
	<b>Basecoat (MonoBase XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.					
	<b>Mesh imbedded in the centre of the basecoat (MonoMesh XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.					
<b>Render (Monocouche Render XF)</b>	Information regarding supplier name, thickness, mass per unit area and relative mass to the whole product provided but withheld on the report for commercially sensitive reasons.						
<b>Thickness</b>	15 mm						
<b>Mass per unit area</b>	25 kg/m <sup>2</sup>						
<b>Density</b>	1666 kg/m <sup>3</sup>						
<b>Colour</b>	Various						
<b>Fire retardant</b>	No						
<b>Other information</b>	-						

#### 4. REPORTS AND RESULTS IN SUPPORT OF THIS CLASSIFICATION

##### 4.1. REPORTS

Name of Laboratory	Name of sponsor	Report ref. no	Test method and date field of application rules and date
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-HC-000326A	<b>BS EN ISO 1716:2018</b>
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-HC-000326B	<b>BS EN ISO 1716:2018</b>
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-HC-000326C	<b>BS EN ISO 1716:2018</b>
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-NC-000326A	<b>BS EN ISO 1182:2020</b>
EFFECTIS UK/Ireland	Monocouche Render Systems Ltd	EUI-24-NC-000326B	<b>BS EN ISO 1182:2020</b>

##### 4.2. RESULTS

Test method and test number	Parameter	No. Tests <sup>a)</sup>	Results			Compliance with parameters
			Continuous parameter - mean (m)			
<b>BS EN ISO 1716:2018</b> EUI-24-HC-000326A EUI-24-HC-000326B EUI-24-HC-000326C	PCS (MJ/kg) GCV (MJ/kg)	3	MonoBase XF	0.0 MJ/kg	0.0 MJ/m <sup>2</sup>	-
		3	MonoMesh XF	6.9 MJ/kg	0.8 MJ/m <sup>2</sup>	
		3	Monocouche Render XF (Brick red)	0.0 MJ/kg	0.0 MJ/m <sup>2</sup>	
		3	Monocouche Render XF (Earth dark)	0.0 MJ/kg	0.0 MJ/m <sup>2</sup>	
		3	Monocouche Render XF (Nimbus white)	0.0 MJ/kg	0.0 MJ/m <sup>2</sup>	
		-	Product as a whole	<b>0.0</b> MJ/kg	<b>0.8</b> MJ/m <sup>2</sup>	

<b>BS EN ISO 1182:2020</b> EUI-24-NC-000326A MonoBase XF	Temperature rise	5	3	-
	$\Delta m$ (%) Mass loss		9	-
	$t_f$ (s) Duration of sustained flaming		0	-
<b>BS EN ISO 1182:2020</b> EUI-24-NC-000326B Monocouche Render XF (Brick red)	Temperature rise	5	4	-
	$\Delta m$ (%) Mass loss		12	-
	$t_f$ (s) Duration of sustained flaming		0	-
a) Not for extended application (-) means not applicable.				

## 5. CLASSIFICATION AND FIELD OF APPLICATION

### 5.1. REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with BS EN 13501-1:2018.

### 5.2. CLASSIFICATION

The product, Monocouche XF – Best Practice, in relation to its reaction to fire behaviour is classified:

**A1**

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation products is:

<b>Fire behaviour</b>
<b>A1</b>

i.e., **A1**

<b>Reaction to fire classification</b>	<b>A1</b>
--	-----------

### 5.3. FIELD OF APPLICATION

This classification is valid for the following product parameters and end-use applications:

Density	Valid for the tested density
Type of mesh	Valid only for the tested mesh with PCS of 1.4 MJ/m <sup>2</sup> or lower
Type of product/ facings	Valid for tested type of product only (same formulation)
Colour	Valid for all colours of Monocouche Render XF

**6. LIMITATIONS**

---

This classification document does not represent type approval or certification of the product.

**SIGNED**



Mohamad Aloulou  
Project leader

**APPROVED**



Maurice MCKEE  
Lab Manager

## DECLARATION OF PERFORMANCE N°: 600770-101

1. **Product:**  
Monocouche XF
2. **Distributor for:**  
Monocouche Render Systems Ltd with address in:  
Unit B7, Phoenix Industrial Estate  
Rosslyn Crescent, Harrow HA1 2SP. United Kingdom
3. **Intended use:**  
One coat mortar, MONOCOUCHE XF, type OC CSIII W2, to coat façades with rough finish, rainwater proof and permeable to water vapour.
4. **Evaluation System:**  
4
5. **Declared performances :**

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire	A1	EN-998-1:2018
Water absorption	W2	
Water permeability after climatic cycles	$\leq 1 \text{ml/cm}^2$ after 48 hours	
Water vapour permeability	$\mu \leq 15$	
Thermal conductivity ( $\lambda_{10, \text{dry}}$ )	0,45 (tabulated)	
Adhesion after climatic cycles	$\geq 0.3 \text{ N/mm}^2$ failure A/B	
Durability	Evaluation based on adhesion and water permeability after climatic cycles	
Hazardous substances:	See safety datasheet	

The performances of the product identified in point 1 comply with the performance declared in point 5.  
This declaration of features is issued under the sole responsibility of manufacturer stated in point 2.  
Signed by and on manufacturer behalf:  
Place and date of issue: Harrow, 01/09/2021

Director: Bogdan Bobut



Monocouche Render Systems Ltd  
Unit B7  
Phoenix Industrial Estate  
Rosslyn Crescent  
Harrow  
HA1 2SP  
United Kingdom  
18  
N°: 600770-101

**EN 998-1**

**MONOCOUCHE XF**

One coat mortar, MONOCOUCHE XF, type OC CSIII W2, to coat façades with rough finish, rainwater proof and permeable to water vapour.

<b>Reaction to the fire:</b>	Type A1
<b>Water absorption:</b>	W2
<b>Water permeability after climatic cycles</b>	$\leq 1 \text{ml/cm}^2$ after 48 hours
<b>Water vapour permeability:</b>	$\mu \leq 15$
<b>Adhesion after climatic cycles</b>	$\geq 0.3 \text{ N/mm}^2$ failure A/B
<b>Durability</b>	Evaluation based on adhesion and water permeability after climatic cycles

## Acceptance certificate

**Issue date:** 31/10/22  
**Reference number:** 4010  
**Issue:** 01  
**Innovative Product Owner:** Monocouche Render Systems Ltd  
Unit B7, Phoenix Industrial Estate,  
Rosslyn Crescent, Harrow HA1 2SP

**Innovative Product name:** Monocouche XF

**Generic form:** Render System

---

NHBC Services Ltd has reviewed the following information (the System Manual) related to the Innovative Product supplied by the Innovative Product Owner:

- Declaration of Performance – Monocouche XF 01/09/2021

Relying on the information provided by the Innovative Product Owner, NHBC Services Ltd considers that the Innovative Product can meet NHBC Standards.

Additional requirements must be met in order for a new home to qualify for Buildmark cover. Buildmark cover for new homes will only be issued to Builders or Developers in accordance with the latest version of the NHBC Rules (a copy of which can be found at [www.nhbc.co.uk](http://www.nhbc.co.uk)).

This acceptance certificate is valid until such time as it is no longer published or authorised by NHBC. Readers are advised to check the validity and latest issue number of this Certificate by either referring to our website at [www.nhbc.co.uk/accepts](http://www.nhbc.co.uk/accepts) or contacting NHBC directly.

**Issued by:**

A handwritten signature in black ink, appearing to read 'ASIT', written over a white background.

Innovation Services Manager

NHBC Services Ltd

## Acceptance certificate

### Description, Scope and intended use

Monocouche Render Systems Ltd Monocouche XF is a pre-mixed cement-based, breathable render for use on exterior or interior masonry or concrete walls.

The System is suitable for use on external walls formed from 7kn - 10kn general purpose concrete blockwork. The System can also be installed onto lightweight block, brickwork, stonework, and most masonry construction in consultation with the Product Owner.

Ancillary items include 'Monobase XF' and 'Monomesh XF'. These may be part of the site-specific specification to provide greater resistance to movement within the substrate and increased protection against water penetration and weathering.

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### Extent of review for NHBC Warranty on NHBC Registered Sites

NHBC Services Ltd has undertaken a technical review of the System Manual as set out in line with the NHBC Accepts Technical Document for Innovative Products.

The NHBC Accepts Service is intended solely to provide confidence that the Innovative Product meets NHBC Standards and is not intended as evidence of performance for any other purpose. Appraisal of the Innovative Products against building regulations is not carried out as part of this Service.

---

### Exclusions and Limitations

This Acceptance Certificate is made out solely to the System Owner. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the System Owner arising out of, or in connection with, this Acceptance Certificate.

Exclusions and limitations are set out in the System Manual. Additional considerations in the use of the Innovative Product include:

- The System has not been assessed for use below DPC level or as part of a tanking system below ground and the Product Owner must be consulted before use.
- The render specification must be assessed on a site-specific basis, and guidance issued in accordance with Standards Chapter 6.11.
- The System is suitable for general use in exposure zones up to and including 'moderate' wind driven rain index category, in accordance with PD 6697:2010. Use in severe or very severe categories must be with guidance from the Product Owner.

# MONOCOUCHE

RENDER SYSTEMS



## Monocouche Render Systems

Unit B7, Phoenix Industrial Estate, Rosslyn Crescent, Harrow, HA1 2SP

T: 0330 111 1467 E: [info@monocouche.co.uk](mailto:info@monocouche.co.uk) W: [www.monocouche.co.uk](http://www.monocouche.co.uk)

