

## 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 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 scrapping 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 month's 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.