

# MIXBUILD HS

Fibre reinforced high strength, structural repair mortar



the construction chemist...

## Introduction

**Mixbuild HS** is a specially formulated concrete repair mortar with fibre, having non shrink property and high adhesion to concrete.

## Appropriation

Heavy repair of concrete  
Specially made for columns, slabs and for repair of heavy concrete damages.  
Repair of concrete in highly corrosive conditions such as sea walls, marine structures

## Characteristics

Extra reinforced strength due to the presence of fibre  
Resistant to sea water  
Suitable for high build applications  
Prevents the corrosion of steel reinforcement in concrete  
Can be applied by trowel, by pump or spray  
Best for repair in marine and industrial conditions

## Technical Data and Properties

Appearance	Powder
Bulk Density	1.4
Grain Size	Up to 2mm
Special Ingredients	Special Binders, polymers and fibers
Corrosion	Chloride Free
Compressive Strength @ 28Days	75N/mm <sup>2</sup>
Flexural Strength @28Days	12N/mm <sup>2</sup>
Setting Time @30°C	2.5hours



## Product Management

**Surface preparation:** The surface of the concrete to be repaired should be sound, clean and uncontaminated. The decayed or damaged areas should be saw cut, keeping the sides of the area as square as possible. Loose materials must be removed carefully using suitable means such as sharp tools chipping hammers. If the reinforcement is corroded make sure that the back of the steel is completely exposed. Then clean the steel to bright metal condition.

## Priming:

**Reinforcement steel :** On completion of the cleaning prime the cleaned reinforcement steel using Zinc rich primer brush apply in a continuous filling a coat of zinc rich primer to the steel. A second coat may be applied after 5 hours. For the concrete is recommended to use Mixbond AC as a primer before applying Mixbuild HS.

**Concrete:** If the concrete damaged is severe and is due to chloride attack, before applying the Mixbuild HS, a bonding coat with epoxy bond. For Mixbuild HS to achieve optimum bond in the fresh and cured states, it should be applied when the bonding agent is still tacky.

**Mixing:** Mixbuild HS can be mixed by hand or mechanical mixing. For hand mixing, quantities not greater than 10kg may be mixed at one time. Slowly add the Mixbuild HS powder to clean gauged water, working well to produce a smooth mortar. The consistency of the mix can be adjusted by the addition of more powder or water as necessary.



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**Placing and finishing:** Whilst the primer is still tacky, apply the mortar mix and compact well. Application can be by a trowel or a rubber gloved hand to force the material in place. Mixbuild HS can be applied at a thickness of 40mm at one pass on vertical and overhead surfaces. High build application can be achieved by using form work. While applying multi-layers, the previous layer should be cross hatched and allowed to set before applying the next coat.

**Curing:** Start curing with clean water or Mixcure immediately after finishing and formwork is stripped

**Cleaning:** Clean tools with water after use

**Special note:**  
Mixbuild HS is not recommended to be used under temp. 5°C  
Mixbuild HS should not mix with any other product  
Ponding method of curing is not suitable

## Packing

Available in 25kg bag

## Storage and shelf life

Up to 12 months in unopened bags under sound conditions of storage

## Health & Safety

Mixbuild HS contains no hazardous substances; however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes, wash thoroughly and immediately with warm water. If swallowed seek medical attention. For more details, please refer to the MSDS released on each PyChem product

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Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hand-on application. The data sheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity and porosity of substrate may impinge on values



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