

# ROADSTONE FLOMIX HYDROCURE & HYDROCURE PLUS

## INTRODUCTION

Roadstone Flomix Hydrocure and Hydrocure Plus are a new range of high performance dry silo mortars specially formulated for use with clay brick and other masonry units that have a high initial rate of water absorption. Roadstone Flomix dry silo mortars are manufactured in our state-of-the-art plant, using traditional materials, to proven prescribed mixes which provide the optimum combination of strength, bond, workability.

## ADVANTAGES

Roadstone Flomix Hydrocure and Hydrocure Plus dry silo mortars offer a number of advantages over standard mortar mixes.

Natural unglazed clay brick can have a very high initial rate of water absorption. This can be problematic for traditional mortar mixes as the water is rapidly absorbed from the fresh mortar in to the brick causing the mortar to stiffen and become difficult to work. This can cause issues with the positioning of the brick, the quality of the bedding and the pointing of the mortar joint. Many manufacturers recommend that bricks are soaked prior to laying to overcome this issue. However this is not always practical and can cause issues later in the build.

Roadstone Flomix Hydrocure and Hydrocure Plus overcome this problem with the use of high performance admixtures to greatly increase the water retention of the mortar while also improving cohesiveness. The result is that the mortar retains much of its initial workability when used with clay brick and other masonry units that have a high initial rate of water absorption. This will increase the efficiency and ease of use for the bricklayer, during both laying and pointing, as well as the quality of the finished mortar joint.

## KEY FEATURES AND BENEFITS

- Improved water retention, >90% retention
- Improved cohesiveness
- Compatible with high initial rate of water absorption masonry units
- Greater workability stability
- Extended tooling times, improved build efficiency
- Improved bond and strength development
- Reduced permeability of joint face
- CE marked product

## MORTAR MIXES

Roadstone Flomix Hydrocure and Hydrocure Plus dry silo mortars are specially formulated for use with high initial rate of water absorption masonry units such as clay brick. The mortar mixes use a finer sand grading which is suited to brickwork and allows for improved pointing of joints. However they are also suited to most other types of masonry construction. It is therefore possible to use the same silo for both brickwork and blockwork.

The following Roadstone Flomix mortar mixes are now available in both Hydrocure and Hydrocure Plus options. Other strength designations are available on request.

Name	Strength (N/mm <sup>2</sup> )	Cement:Sand or Cement:Lime:Sand (By Volume)
M4 Brick	4.0	1 : 5-6
M4 Brick Lime	4.0	1 : 1 : 5-6
M4 Brick Coloured	4.0	1 : 5-6

## HYDROCURE OR HYDROCURE PLUS?

The choice between Hydrocure and Hydrocure Plus is dependent on the initial rate of water absorption of the masonry unit, as declared by the manufacturer on the Declaration of Performance (DoP). See table below.

Type	Initial Rate Of Water Absorption (kg/m <sup>2</sup> min) (I.S. EN 772-11)
Hydrocure	1.5 – 3.5
Hydrocure Plus	≥ 3.5

## PRODUCT CONFORMITY

Roadstone Flomix mortars are CE marked products and are accurately batched to I.S. EN 998-2 "Specification for mortar for masonry. Masonry mortar", under a registered Quality Management System to I.S. EN ISO 9001. The traditional mix designs used are as set out in the National Annex to Eurocode 6, I.S. EN 1996- 1-1 "Design of masonry structures – Part 1-1: General rules for reinforced and unreinforced masonry structures" (Including Irish National Annex Table NA.3) and S.R. 325 "Recommendations for the design of masonry structures in Ireland to Eurocode 6".

**For further information on Roadstone Flomix dry silo mortars go to [www.roadstone.ie/products/flomix](http://www.roadstone.ie/products/flomix)**