

# MasterLife WP 590

Waterproof Mortar for Filets and Plugs

## Material Description

MasterLife WP 590, when mixed with clean water, provides a ready to use versatile mortar for filets and plugs in concrete and masonry or tie bar applications. The material expands as it cures to form a waterproof seal with similar characteristics to concrete.

## Areas of Application

MasterLife WP 590 can be used to form filets or plugs to seal joints, cracks and holes in concrete or masonry.

## Areas of use include:

- As a seal for wall/ floor joints in the form of a filet prior to basement tanking
- Plugging tie-bars
- For sealing cracks and construction joints in below ground structures, such as basements and other water retaining structures
- For conduits, pipes, railings, sanitary equipment, etc.
- Joint filling, pointing between concrete segments in concrete and brick tunnels, sewage systems, pipes and mines.

## Features and Benefits

- Expands as it sets, ensuring a permanent waterproof seal
- Similar characteristics and compatible with concrete
- Chloride-free
- Does not promote corrosion of the reinforcement

## Application Procedure Preparation of substrate

Cracks or holes should be cut to a minimum width and depth of 20 mm, cutting the sides as square as practicable. Undercut if possible. Avoid leaving a V-section. Do not feather-edge.

Flush out holes, joints or cracks with water to remove all loose particles and dust.

All surfaces must be dampened with clean water immediately prior to the application of MasterLife WP 590.

## Mixing Application

Mixing should only be done by hand.

4.5-5.0L water per 25KG bag.

## Forming plugs for tie bars or filets:

Mix appropriate volume to cover a workable section.

Do not overmix.

Flush away all cuttings and dirt.

Force MasterLife WP 590 mortar into the area and smooth it out.

Form a 45° cove or fillet at the junction of floor and wall of approximately 35-45 mm.

## Curing

Final setting time is approximately 3 hours depending on a combination of air and substrate temperatures.

## Application Method

For filet applications refer to appropriate documentation such as the Basement Waterproofing Guide or contact Master Builders Solutions UK Ltd for specific advice.

## Substrate Quality

Substrates to be treated must be completely clean, structurally sound, and mechanically keyed. All surface coatings, defective renders, foreign matter, formwork treatments and other contaminants that may affect the bond adversely should be removed.



# MasterLife WP 590

Waterproof Mortar for Filets and Plugs

## (a) Surface Preparation

Substrates should be prepared by abrasive blasting or high-pressure water treatment. Aggressive methods such as scabbling can be used depending on the repair required.

## Finishing and Cleaning

Tools, equipment, and spillages should be cleaned immediately with clean water.

## Working Time

45 minutes in 20 °C ambient and substrate temperature.

## Coverage

1 kg of powder will fill approximately 585cm<sup>3</sup> or a joint 20mm x 20mm x 1.45m.

## Storage

All materials should be stored under cover, clear of the ground and stacked not more than 4 pallets high. Protect the materials from all sources of moisture and frost.

## Shelf Life

Rotate stock in order not to exceed the shelf life of 12 months. Once opened the material should be used as soon as possible.

## Handling and Transport

Usual preventive measures for the handling of chemical products should be observed when using this product, for example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed. Specific safety information referring the handling and transport of this product can be found in the Material Safety Data Sheet. For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Disposal of product and its container should be carried out according to the local legislation in force. Responsibility for this lies with the final owner of the product.

## Contact Details

Master Builders Solutions UK Ltd  
Swinton Hall Road,  
Swinton,  
Manchester,  
M27 4EU

Tel: +44 (0) 161 727 6300

[www.master-builders-solutions.com/en-gb](http://www.master-builders-solutions.com/en-gb)

# MasterLife WP 590

Waterproof Mortar for Filets and Plugs

Product Data		
Properties	Unit	Data
Wet Density	kg/m <sup>3</sup>	2140
Setting time	minutes	180
Workability	minutes	60
Compressive Strength		
24 Hours		3.5
7 Days	N/mm <sup>2</sup>	15
28 Days		30
Tensile adhesion Strength		
28 Days	N/mm <sup>2</sup>	0.7

# MasterLife WP 590

Waterproof Mortar for Filets and Plugs

## Disclaimer

MasterLife WP 590, Master Builders Solutions UK Ltd, Version I

### Health and Safety

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

### Spillage

Chemical products can cause damage; clean spillage immediately.

### DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.