

MasterLife WP 70 System

Hydrophilic swellable strips with installation mesh system for waterproofing construction joints

Material description

MasterLife WP 70 Part A is a hydrophilic waterstop made from bentonite clay and butyl rubber that, with its excellent swelling capabilities, acts as a watertight seal for construction / day joints. Fixing is recommended using MasterLife WP 70 Part B. MasterLife WP 70 Part B is a galvanised steel installation mesh for use with MasterLife WP 70 Part A.

Areas of application

MasterLife WP 70 System is suitable for all concrete construction joints subject to hydrostatic pressure on one or both sides.

Application areas include joints between:

- Concrete construction joints.
- Rafts and walls in tunnels and basements.
- Steel and concrete pipes, I-Section steels and pre-cast elements etc.

Alternatively, MasterLife WP 70 Part A can be applied as a system component for bentonite mats. It seals against hydrostatic head of pressure of up to 5 bar.

MasterLife WP 70 System can be applied both vertically and horizontally, but under no circumstances should it be used in expansion or movement joints.

Characteristics and benefits

- Retains its shape after 3 complete wet / dry cycles.
- Can fill minor voids in the concrete.
- Good resistance to a wide range of chemicals.
- Protection against rain and ground water
- Sealing force of 1.25 tonnes per m

Application Procedure

Surface Preparation:

Joint surfaces must be structurally sound, clean and free from oil, grease and other contaminants. Carefully remove all loose particles and dust. All substrate coatings, defective renders, formwork treatments and other previously applied materials that may affect the bond adversely should be removed. Clear any standing water on the surface. The temperature during installation should be over +5°C and below +35°C.

Application:

Place MasterLife WP 70 Part A on a smooth, laitance and dust free surface (concrete or metal). Do not install MasterLife WP 70 Part A during heavy rainfall, as it may result in swelling before the concrete has been poured. Avoid all contact with water before concrete casting.

MasterLife WP 70 Part A should be positioned so that it is a minimum of 80mm from any exposed surface of the concrete. MasterLife WP 70 Part A should be fixed in place using MasterLife WP 70 Part B (Installation mesh) with nails and washers with a recommended maximum spacing of 250mm.

Any MasterLife WP 70 Part A that is damaged, already swollen, or where the shape has changed, should not be installed.

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Part A Product Data	
Appearance:	Black Bentonite Bar
Size:	20mm x 25mm x 5m
Chemical resistance:	Good overall chemical resistance, but care should be taken with aromatic oils and fuels and vegetable oils.
Bending radius at corners:	50mm
Swelling pressure when encapsulated:	0.51 N / mm ²
Density:	1.43 g / cm ³
Temperature Range	0 °C – + 50 °C
Swelling capacity in rainwater	< 350 %
Swelling capacity in concrete water	< 150 %
Part B Product Data	
Appearance:	Galvanised steel mesh
Size:	20mm x 25mm x 1m
Logistics	
Part A Shelf life:	24 months if stored according to manufacturer's instructions in unopened container.
Part B Shelf life:	No specified shelf life if stored dry and in the original boxes
Storage conditions:	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation:	Refer to MasterLife WP 70 Part A & B Safety Data Sheet
Disposal:	Refer to MasterLife WP 70 Part A & B Safety Data Sheet

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DISCLAIMER

MasterLife WP 70 System, Master Builders Solutions UK Ltd, Version 1

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.

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

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.