

# MasterSeal M860 / M861

Highly elastic, liquid applied, non-solvented coatings for use in waterproofing applications

## DESCRIPTION

MasterSeal M860 and M861 are hand applied, non-solvented, 2-component, elastomeric polyurea coatings.

MasterSeal M860 is self-levelling. MasterSeal M861 is thixotropic for applications to steeply sloping and vertical surfaces.

## FIELD OF APPLICATION

MasterSeal M860 and M861 are used in a variety of concrete waterproofing applications including roofing, balconies, terraces, podium decks, car park decks and water industry applications.

## FEATURES AND BENEFITS

- monolithic – no laps, welds or seams
- fully bonded
- high water vapour permeability – low risk of blistering
- excellent mechanical properties
- excellent crack bridging capability
- resistant to puncture
- resistant to standing water
- thermoset – does not soften at high temperatures
- remains elastic at low temperatures eg approx. - 45°C
- non-solvented

## SUBSTRATE PRETREATMENT

The preparation of the substrate and the use of the appropriate primer are of paramount importance. All surfaces to which MasterSeal M860 and M861 are applied must be clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion.

Primer selection will depend on substrate type. Application should take place within the re-coat interval of the primer, to which it is to be applied.

## APPLICATION CONDITIONS

For best results, materials, substrate and air temperature should be in the range 15-25°C

Low temperatures will reduce flow and can impair the visual appearance of the membrane. High temperatures will shorten the open time and can impair the appearance of the membrane.

The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 6 hours following application (at 15°C).

## APPLICATION

MasterSeal M860 and M861 are supplied in working units. Before mixing, both A and B components should be preconditioned to a temperature of 15 to 25°C.

Pour the entire contents of part A into the container of part B. mix with a low speed (ca. 300rpm) electric drill and paddle for at least 3 minutes until homogeneous. Scrape the sides and bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air.

**Do not work out of the original container.** Decant the mixed material into a fresh container and remix for another minute.

MasterSeal M860 is poured onto the prepared substrate and spread with a notched trowel or spreader (rubber or steel). Bubbles should be removed by rolling with a spiked roller. MasterSeal M861 is applied to the prepared substrate by toothed trowel, spatula or brush.

## COVERAGE

MasterSeal M860

**Typically 1.35kg/m<sup>2</sup> per mm thickness.**

Minimum membrane thickness: 1.5mm.

MasterSeal M861

**Typically 1.05 kg/m<sup>2</sup> per mm thickness.**

Minimum membrane thickness: 1.5mm

Refer to System Data Sheet and project specification.

## FINISHING AND CLEANING

Tools must be cleaned immediately after use with xylene or other suitable solvent.

## CURING

Full cure is reached in 4 days after the application at a constant temperature of 20°C.

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## WORKING TIME

45 minutes when hand mixed at 20°C ambient and substrate temperature.

## PACKAGING

MasterSeal M860 is supplied in 30kg working packs.  
MasterSeal M861 is supplied in 10kg working packs.

## STORAGE

Store in original containers under normal warehouse, conditions. Off the ground, dry and at a temperature between 5-30°C. Do not expose to direct sunlight for maximum shelf life.

## SHELF LIFE

For maximum shelf life under these conditions, see "Best before....." label.

## 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

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Product Data	
Mixing ratio A:B (by weight) M860 M861	100:180 1:10
Density g/cm <sup>3</sup> at 20°C M860 M861	1.35 1.05
Recoat intervals at 20°C Minimum / hours Maximum / days	5 1
Fully cured at 20°C / days	4
Ambient and substrate temperature Minimum / °C Maximum / °C	5 30
Relative humidity Maximum / % RH	90
Physical properties after 28 days	
Shore A hardness	75
Tensile strength, N/mm <sup>2</sup>	15
Tear strength, N/mm <sup>2</sup>	21
Elongation, %	700

*The above figures are intended as a guide only and should not be used as a basis for specifications.*



When MasterSeal M860 and 861 are used as a membrane with other MasterTop and MasterSeal products the system conforms to the relevant CE marks.

Please refer to the relevant Declaration of Performance and the product and system data sheets.

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## 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.

## Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

## Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

## 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.