

MasterSeal® M 860 (formerly known as Conipur M 860)

Polurethane-Polyurea hybrid waterproofing membrane

DESCRIPTION

MasterSeal M 860 is a hand applied, solvent free, two component, self levelling, polyurethane - polyuria hybrid based, elastomeric coating.

RECOMMENDED USES

MasterSeal M 860 is used in a variety of general concrete waterproofing applications including balconies, terraces, podium decks and car park decks. It is also used in roofing applications where there is no requirement for a fire retardant system.

MasterSeal M 860 is self levelling and is used on horizontal and near horizontal surfaces.

FEATURES AND BENEFITS

- **Monolithic** - no laps, welds or seams
- **Fully bonded** - if punctured water can't track
- **High water vapour permeability** - low risk of blistering from osmotic pressure
- **Optimum tensile strength** - Excellent crack bridging capability
- **Resistant to puncture** - high shore hardness
- **Unaffected by contaminants in ground water** - Resistant to constant contact with ground water.
- **Thermoset** – does not soften at temperatures found in roofing or deck applications.
- **Low TG approx. 45°C** - Remains elastic at low temperatures
- **Fast setting** - Can be re-coated after only a few hours
- **Low VOC** - Solvent free

PERFORMANCE DATA

| | |
|-----------------------------|-----------------------------------|
| Mixing ration A:B | 100:180 |
| Mixed density at 23°C | 1.05 kg/L |
| Mixed viscosity at 23°C | 5200 mPas |
| Working Time (approx.) | |
| at 10°C | 35 minutes |
| at 20°C | 25 minutes |
| at 30°C | 15 minutes |
| Re-coating interval at 10°C | Minimum 8 hours Maximum 2 days |
| Re-coating interval at 20°C | Minimum 5 hours Maximum 1 day |

| | |
|--|------------------------------------|
| Re-coating interval at 30°C | Minimum 3 hours Maximum 12hours |
| Full cure at 10 °C at 20°C at 30°C | 5 days 4 days 3 days |
| Recommended substrate temperatures | |
| Minimum | 5°C |
| Maximum | 40°C |
| Recommended relative humidity | Max 90°C |
| Shore A Hardness DIN 53505 | 75 |
| Tensile Strength DIN 53504 | 15 N/mm ² |
| Elongation DIN 53504 | 700% |
| Tear strength DIN 53515 | 21 N/mm ² |

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

APPLICATION

MasterSeal M 860 is supplied in working packs which are pre-packed in the exact ratio. Before mixing, precondition both the A and B components to a temperature of approximately 15 to 25°C. Pour the entire contents of Part A into the container of Part B. **DO NOT MIX BY HAND.** Mix with a mechanical drill and paddle at a low speed (approx. 300 rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing.

Keep the mixer blade fully submersed in the coating to avoid introducing air bubbles. **DO NOT WORK OUT OF THE ORIGINAL CONTAINER.** After proper mixing to a homogeneous consistency, pour the mixed parts A and B into a clean container and mix for a further minute. **MasterSeal M 860** is poured onto the prepared substrate and spread with a notched trowel or spreader (rubber or steel).

The temperature of the substrate must be at least 3°C above the dew point both during and for at least 6 hours after application (at 15°C).

Substrate pre-treatment

The preparation of the substrate and the use of the appropriate primer are of paramount importance. All substrates should be sound, clean and dry and free



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from oil or grease, loose particles and any other substances which may impair adhesion.

Concrete and other cementitious substrates must have a minimum pull off strength of 1.5 N/mm². Any laitance present on the surface must be removed mechanically.

Shot blasting or scabbling is the preferred method. Release oil and other contaminants which may impair adhesion must be removed prior to application of the primer.

For substrate pre-treatment on other substrates, contact your local BASF Construction Chemical technical representative.

Primer

Ensure primer has cured to a 'tack-free' state prior to the application of **MasterSeal M 860**. Use the following guide to select the appropriate primer:

Concrete: MasterEmaco 2525 or MasterTop P 1602

Other Substrates: Contact your local BASF Construction Chemicals Technical representative

Top Coats and Wear Coats

MasterSeal M 860 does not have sufficient UV and weather resistance to be used in exposed applications without protection. A number of top coats and wear coats are available, including **MasterSeal TC 258** which can be broadcast with dry silica sand to provide a hard wearing, slip resistant finish.

Note: if rain falls or dew occurs on the surface of **MasterSeal M 860** then the membrane must be dried and MasterTop P 691 applied prior to the application of any wear coat or top coat (even if the re-coat interval has not been exceeded).

For information about application, please obtain a copy of the BASF "Application Guide of **MasterSeal M 860** from your local representative.

ESTIMATING DATA

The consumption of **MasterSeal M 860** depends on the application. The quality necessary for a 1mm thick film is 1.35 kg/m².

PACKING

MasterSeal M 860 is supplied in 30kg working packs.

SHELF LIFE

MasterSeal M 860 can be kept for 12 months if stored in original containers under dry conditions and a temperature between 10-30°C. Do not expose to direct sunlight.

PRECAUTIONS

For the full health and safety hazard in formation and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals Material Safety Data Sheet (MSDS) from our office or our website.

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NOTE

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