

# CONIPUR M 860

Polyurethane waterproofing membrane

## DESCRIPTION

**Conipur M 860** is a hand applied, solvent free, two component, self levelling, polyurethane based, elastomeric coating.

## RECOMMENDED FOR

**Conipur 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.

**Conipur 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**
- **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**-  
T<sub>g</sub> approx. 45°C
- **Can be re-coated after only a few hours**
- **Solvent free**
- **Available in mid-grey**

## PERFORMANCE DATA

|                                    |         |                   |                   |
|------------------------------------|---------|-------------------|-------------------|
| Mixing ratio A : B                 |         |                   | 100 : 180         |
| Mixed density                      | at 23°C | g/cm <sup>3</sup> | 1.35              |
| Mixed viscosity                    | at 23°C | mPas              | 5200              |
| Working time (approx)              | at 10°C | min               | 35                |
|                                    | at 20°C | min               | 25                |
|                                    | at 30°C | min               | 15                |
| Re-coating interval                | at 10°C | hr<br>d           | min. 8<br>max. 2  |
|                                    | at 20°C | hr<br>d           | min. 5<br>max. 1  |
| Full cure                          | at 10°C | d                 | 5                 |
|                                    | at 20°C | d                 | 4                 |
| Recommended substrate temperatures |         | °C                | min. 5<br>max. 30 |
| Recommended relative humidity      |         | %                 | max. 90           |

## Technical data cured material

|                  |           |                   |     |
|------------------|-----------|-------------------|-----|
| Shore A hardness | DIN 53505 |                   | 75  |
| Tensile strength | DIN 53504 | N/mm <sup>2</sup> | 15  |
| Elongation       | DIN 53504 | %                 | 700 |
| Tear strength    | DIN 53515 | N/mm <sup>2</sup> | 21  |

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.

## ESTIMATING DATA

The consumption of **Conipur M 860** depends on the application. The quantity necessary for a 1mm thick film is **1.35 kg/m<sup>2</sup>**.

## APPLICATION

**Conipur M 860** is supplied in working packs which are pre-packaged 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 submerged 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. **Conipur M 860** is poured onto the prepared substrate and spread with a notched trowel or spreader (rubber or steel). The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down, this lengthens the pot-life, open time and curing times.

High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperatures should not fall below the minimum.

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 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/mm<sup>2</sup>. 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 Chemicals technical representative.



The Chemical Company

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## Primer

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

| Substrate        | Primer  |
|------------------|---|
| Concrete         | Concresive 2525 or Mastertop P 660                                      |
| Other substrates | Contact your local BASF Construction Chemicals technical representative |

## Top coats and wear coats

**Conipur 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 **Conipur TC 458** which can be broadcast with dry silica sand to provide a hard wearing, slip resistant finish.

Other top coats may be more suitable for specific applications, consult your local BASF Construction Chemicals Technical Representative for further details.

Note: if rain falls or dew occurs on the surface of **Conipur M 860** then the membrane must be dried and **Mastertop P 679** 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 for **Conipur M 860**" from your local representative.

## CLEANING

Reusable tools should be cleaned carefully with **Cleaner 40**.

## PACKAGING

**Conipur M 860** is supplied in 30kg working packs.

## SHELF LIFE

**Conipur 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

### EU Regulation 2004/42 (Decopaint Guideline)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC limit (Stage 2, 2010) according to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j is 500 g/l (Limit: Stage 2, 2010). The VOC content for **Conipur M 860** is < 500 g/l (for the ready to use product).

In its cured state, **Conipur M 860** is physiologically non-hazardous. The following protective measures should be taken when working with the material: Wear safety gloves, goggles and protective clothing. Avoid contact with skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. When working with the product do not eat, smoke or work near a naked flame.

For the full health and safety hazard information 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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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. **BASF Construction Chemicals data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue.**

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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