

CONIPUR M 860

Polyurethane – Polyurea hybrid waterproofing membrane

DESCRIPTION

CONIPUR M 860 is a hand applied, solvent free, two component, self levelling, polyurethane – polyurea hybrid 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_g 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 ³	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 d	min. 8 max. 2
	at 20°C	hr d	min. 5 max. 1
Full cure	at 10°C	d	5
	at 20°C	d	4
Recommended substrate temperatures		°C	min. 5 max. 30
Recommended relative humidity		%	max. 90
VOC content: g/L 22 (HK prod code P10-17)			

Technical data cured material

Shore A hardness	DIN 53505		75
Tensile strength	DIN 53504	N/mm ²	15
Elongation	DIN 53504	%	700
Tear strength	DIN 53515	N/mm ²	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/m²**. Normally applied at 1.5-2.0 mm thickness.

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/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 Chemicals Technical Sales Representative.



The Chemical Company

CONIPUR M 860

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 601
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, dew occurs on the surface of **CONIPUR M 860** or if the temperature of the substrate falls to less than 3°C above the dew point within 6 hours following application, 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).

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** 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.

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**, are responsible for carrying out procedures appropriate to a specific application.

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