

# CONIPUR M 810

Spray applied polyurethane waterproofing membrane

## DESCRIPTION

**Conipur M 810** is a solvent free, two component waterproofing membrane. It is highly reactive and can only be applied by special, two component spray equipment.

## RECOMMENDED FOR

**Conipur M 810** is intended for use in general waterproofing applications such as car park decks, podium decks, cut and cover tunnelling, and other areas where there is no requirement for a fire retardant system. Using the appropriate primer, **Conipur M 810** can be applied to most substrates including concrete, galvanised steel, aluminium, UPVC, glass reinforced polyester etc.

## FEATURES AND BENEFITS

- **Fast reacting**
- **High build capability**
- **Application to vertical surface without runs**
- **Easy application to complicated details**
- **Fast installation**
- **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 elevated temperatures
- **Remains elastic at low temperatures**- $T_g$  approx.  $-45^{\circ}\text{C}$
- **Solvent free**

## PERFORMANCE DATA

Mixing ratio A:B	by weight		100 : 73
	by volume		100 : 70
Density Part A	at 23°C	g/cm <sup>3</sup>	1.05
Part B	at 23°C	g/cm <sup>3</sup>	1.10
Viscosity Part A	at 23°C	mPas	1800
Part B	at 23°C	mPas	2500
Gel time (hand mixed)	at 23°C	S	18

Permissible ambient and (substrate) temperature	°C	min. 5 (5)
	°C	max. 40 (60)
Permissible relative humidity	%	max. 85
VOC content: g/L 0 (HK prod code P10-17)		

### Technical data cured material

(sprayed film except where stated)

Shore A hardness (sprayed)			70-75
Tensile strength	ASTM D412	N/mm <sup>2</sup>	>8
Elongation	ASTM D412	%	>250
Tear strength	DIN 53515	N/mm	16

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

**Conipur M 810** is normally applied at 1.6 – 2.1 kg/m<sup>2</sup>. This corresponds to a thickness of approx. 1.5 – 2.0mm. Details require a higher coverage rate up to 4.0kg/m<sup>2</sup>.

## APPLICATION

### Surface Preparation

The substrates to be coated have to be firm, dry and load-bearing, free of loose and brittle particles as well as substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Pre-treatment of the substrate by grit or shot blasting, high-pressure water jetting, grinding or scarifying is only necessary when the primer or scratch primer is very dirty or, when the re-coating interval has been exceeded.

After pre-treatment of the substrate the bond strength of the substrate must be at least 1.5 MPa (check with an approved pull-off tester ie "Herion", load rate 100 N/s). The temperature of the substrate must be at least 3°C above the current dew point temperature.

The substrate to be coated must be protected against rising damp (back pressure).

**Conipur M 810** can only be applied by means of a suitable two component spray machine. The choice of machine depends to a large extent on the type and size of work contemplated. For advice, please contact your local BASF Construction Chemicals technical representative.

**Conipur M 810** should only be applied to properly prepared substrates.

**Conipur M 810** is available with the Part A coloured grey and the Part B unpigmented. This results in a uniform grey colour of the sprayed material thus giving the sprayer a visual control of the quality of the mixing as machine faults become immediately obvious. This can reduce costly clean up time and material wastage. Due to the fast reaction it is possible to rapidly build thicknesses from 1.0 to > 6 mm.

Surrounding areas should be protected from overspray by masking off with e.g. polyethylene sheet. or paper. Care should be taken to prevent spray mist being carried by wind by erecting suitable barriers. **Conipur M 810** should be applied within the recommended temperature and relative humidity limits. The temperature of the substrate should be min. 3°C above the dew point.

### Primer

Ensure primer has cured to a 'tack-free' state prior to the application of **Conipur M 810**. Use the following guide to select the appropriate primer:

Substrate	Primer
Concrete	Mastertop P 601 (followed by Mastertop P 691) * Mastertop P660
Other substrates	Contact your local BASF Construction Chemicals technical representative

\* Mandatory if used in **Conideck 2204**.



The Chemical Company

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## Top Coats and Wear Coats

Conipur M 810 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, non-slip surface. Other top coats may be more suitable for specific applications, contact your local BASF technical representative office for details.

Note: if rain falls or dew occurs on the surface of **Conipur M 810** 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). In the tropics any exposed **Conipur M 810** must be treated as above if left overnight.

For more information about application, please obtain a copy of the BASF "Application Guide for Conipur Membranes System" from your local representative.

## CLEANING

Clean tools, machine parts with **Cleaner 40**.

## PACKAGING

**Conipur M 810** is supplied in 210kg drums – Part A and 220kg drums – Part B.

## SHELF LIFE

Store in original containers under dry conditions at a temperature between 15-25° C. Do not expose to direct sunlight.

## IMPORTANT

When switching products it is essential to fully empty the machine tanks before filling with the new product.

## 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 810** is < 500 g/l (for the ready to use product).

### Warnings and precautions

Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. Respiratory protection must be worn when spraying or when in the vicinity of the spraying operation. When working well ventilated areas combined charcoal filter and particle filter masks (A-P2) should be worn. When working in less well ventilated and in confined spaces, air-fed helmets are to be worn by sprayer and assistant(s) When working with the product do not eat, smoke or work near a naked flame.

The regulations of the local trade association and/or other authorities, regulating safety and hygiene of workers handling polyurethane and isocyanates must be followed.

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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