

CONIPUR M 800

Spray applied heat resistant polyurethane waterproofing membrane

DESCRIPTION

Conipur M 800 is a solvent-free, pigmented, highly elastic two component system of reactivity, based on a liquid polyurethane resin.

RECOMMENDED FOR

Conipur M 800 is mainly used as a crack bridging membrane and applied onto concrete and bituminous substrates (with suitable primer) in bridge, building and underground construction. Due to its fast reactivity, **Conipur M 800** can only be applied with a suitable two component spraying machine.

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°C
- **Solvent free**

PROPERTIES

In addition to its high elasticity, **Conipur M 800** exhibits excellent tensile strength, a high tear strength and exceptional abrasion resistance. Due to the fast reactivity of **Conipur M 800**, overhead and vertical applications present no problem. Another important point is that the material can be re-coated within a few hours.

PERFORMANCE DATA

Mixing ratio A:B	by weight by volume		100 : 73 100 : 70
Density Part A	at 20°C	g/cm ³	1.06
Part B	at 20°C	g/cm ³	1.10
Viscosity Part A	at 20°C	mPas	2400
Part B	at 20°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

Technical data cured material

(sprayed film except where stated)

Shore A hardness (sprayed)			80
Tensile strength	ASTM D412	N/mm ²	>8
Elongation	ASTM D412	%	>250
Tear strength	DIN 53515	N/mm	18
VOC content	g/L 20 (HK prod code P10-17)		

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

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 800 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 800 should only be applied to properly prepared substrates.

Conipur M 800 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 800** 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 800**. Use the following guide to select the appropriate primer:



The Chemical Company

CONIPUR M 800

Substrate	Primer
Concrete	Mastertop P 601/Concresive 2525 (followed by Mastertop P 691) * Mastertop P660 (fast cure)
Other substrates	Contact your local BASF Construction Chemicals technical representative

* Mandatory for Conideck 2204.

Top Coats and Wear Coats

Conipur M 800 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 800** 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 800** 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.

Method Statement

- Substrate pre-treatment.
Refer to substrate pre-treatment.
- Prime with **Concresive 2525** or **Mastertop P 601** and dust with suitable aggregate according to the relevant application method (refer to the design specification and technical data sheet).
- Spray **Conipur M 800** to primed surface in one single layer (one pass) using a suitable two component spraying machine. Coverage 1.6-2.1 litres/m² gives a coverage of 1.5-2.0 mm thickness.
- Conipur P 691** as an adhesion promoter if the **Conideck 2204** system is being applied.

CLEANING

The machine is cleaned with **Cleaner 40** (sets of hoses, storage tank). Cured material can only be removed mechanically.

PACKAGING

Conipur M 800 is supplied in 210kg drums – Part A and 220kg drums – Part B.

SHELF LIFE

Store in original drums, under dry conditions and a temperature ranging from 15-30°C. Do not expose to direct sunlight.

Under these conditions the material has a shelf life of 12 months.

PRECAUTIONS

Conipur M 800 is physiologically non-hazardous in its cured condition.

The following protective measures should be taken when working with the material. Read all safety directions and warnings on tins before use. Wear safety gloves, goggles and protective clothing. Avoid inhaling the fumes and contact with the skin. 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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