

MASTERTOP[®] P 601 (Formerly CONIPOX 601)

A general purpose, solvent free, two component epoxy resin based primer

DESCRIPTION

MASTERTOP P 601 is a solvent free, low viscosity, two component epoxy resin based primer.

FIELDS OF APPLICATION

MASTERTOP P 601 is designed for use as a primer on mineral substrates such as concrete and cementitious screed with MASTERTOP floor coating systems and with CONIPUR waterproofing membranes.

FEATURES AND BENEFITS

- Low viscosity
- Easy to apply
- Excellent penetration
- Seals pores and capillaries
- Excellent bond to substrate

TYPICAL PERFORMANCE DATA

@ 7 days cure

Shore D hardness (ASTM D2240:05)	: 73
Tensile strength (ASTM D638:03)	: 30 N/mm ²
Thermal expansion coefficient (ASTM D696:03)	: 222.6
Taber abrasion: CS 10 wheels, 10N, 1000 revolutions (ASTM D4060:2007)	: 75 mg

@ 28 days cure

Glass transition temperature (ASTM E1640:04)	: 49°C
Compressive strength (ASTM D695: 02a)	: 80 N/mm ²

PROPERTIES

Mix ratio (by weight)	: 100:27
Mixed density (at 20°C)	: 1.06 g/cm ³
Mixed viscosity (at 20°C)	: 800 MPas
Working time (30 kg unit)	at 12°C : 70 minutes
	at 23°C : 35 minutes
	at 30°C : 20 minutes
Ready for traffic	at 10°C : Min 24 hours
	at 23°C : Min 7 hours
	at 30°C : Min 3 hours

Fully cured	at 10°C	: 5 days
	at 23°C	: 3 days
	at 30°C	: 2 days
Permissible ambient and substrate temperature	Min.	: 8°C
	Max.	: 40°C

APPLICATION

Surface preparation

All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean floors of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants. Mechanical surface profiling by grit or shot blasting, high-pressure water jetting, grinding or scavelling (including the necessary post-treatment) are the preferred floor preparation methods.

The tensile strength of the substrates shall not be less than 1.5 N/mm² (check with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate can be up to 6% (check with e.g.. CM device) with no reduction in adhesion in tropical climates at humidity above 40% and temperature above 30 °C. A damp proof course must have been properly installed and intact.

Mixing

MASTERTOP P 601 is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 29°C. Pour the entire contents of part B into the container of part A.

Do not mix by hand. Mix with a mechanical drill and paddle at a very low speed (approximately 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 blades 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 fresh container and mix for another minute.

Placing

MASTERTOP P 601 should be applied when the ambient temperature is constant, as this will decrease the risk of bubble formation due to expansion of air that is enclosed in the concrete.

After mixing, **MASTERTOP P 601** is applied to the prepared substrate by spreading with a squeegee and finishing with a roller. Oven dried sand is broadcast into the still wet primer in order to improve adhesion of the

BASF Construction Chemicals offices in ASEAN

Singapore

Tel : +65-6861-6766
Fax : +65-6861-3186

Malaysia

Tel : +60-3-5628-3888
Fax : +60-3-5628-3776

Indonesia

Tel : +62-21-526-2481
Fax : +62-21-526-2541

Thailand

Tel : +66-2664-9222
Fax : +66-2664-9267

Vietnam

Tel : +84-650-3743-100
Fax : +84-650-3743-200

Philippines

Tel : +63-2-811-8000
Fax : +63-2-838-1025



The Chemical Company

MASTERTOP[®] P 601

(Formerly CONIPOX 601)

following coat. 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 temperature should not fall below the minimum.

Placing

The mix must be applied to the freshly primed substrate. For repairs of holes large depressions etc. apply the mix with steel trowel. Covings are best formed with a coving tool or empty bottle.

Following the application of the **MASTERTOP P 601**, protect coated area for at least 24 hours after laying from spillage, dust, insects, small animals, traffic, rain, moisture, etc.

CLEANING

Clean tools and equipment first with paper towels or rags, then wipe using a solvent such isopropanol before the system hardens.

ESTIMATING DATA

The consumption of **MASTERTOP P 601** is ranging from 0.3 to 0.5 kg/m² depending on the condition and porosity of the substrate. A second coat of 0.2 to 0.4 kg/m² of **MASTERTOP P 601** is recommended for very porous substrates and improves the protection against rising damp.

Broadcast Filler F5 at the rate 1.0 – 1.5 kg/m² into the still wet primer to produce a light, even cover. Allow to cure for at least 6 hours before removing all excess sand with a stiff broom and vacuum

The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates.

PACKAGING

MASTERTOP P 601 30.0kg/set

SHELF LIFE

All components in **MASTERTOP P 601** can be kept for 12 months in original unopened packing, if stored in a dry enclosed place without exposing to direct sunlight and at temperature between 15 to 35°C.

PRECAUTIONS

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

AN/MTOPP601/v3/270111

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.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** 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.