

MASTERTOP[®] PRIMER 601

A general purpose solvent free epoxy resin based primer

Product description

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

Formerly known as CONIPOX 601

Fields of application

PRIMER 601 is designed for use as a primer on mineral substrates such as concrete and cementitious screeds prior to the application of MASTERTOP[®] flooring systems and CONIPUR waterproofing membranes. PRIMER 601 is also suitable for use as a crack injection resin; contact BASF Construction Chemicals (UK) Technical Services Department for specific advice.

Please refer to individual system data sheets.

A functioning damp proof membrane must be installed under on-grade concrete and known to be effective.

Features and benefits

- low viscosity
- easy to apply
- excellent penetration
- seals pores and capillaries
- excellent bond to substrate

Technical data

Mixed density g/cm ³	1.06
Viscosity / mPas	800
Working time	
30 kg unit at 12 °C / minutes	70
at 23 °C / minutes	35
at 30 °C / minutes	20
Ready for traffic	
at 10 °C / hours	24 – 48
at 20 °C / hours	12 – 48
at 30 °C / hours	3 – 24
Fully cured at 23 °C / d	3
Ambient and substrate temperature	
minimum / °C	8
maximum / °C	30
Maximum relative humidity	
at 10 °C / % RH	75
at 20 °C / % RH	85

The above figures are intended as a guide only and should not be used as a basis for specifications.

Substrate preparation

All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion.

Mechanical preparation such as captive shot blasting, scarification, and diamond grinding for edge work should be used to produce a substrate surface profile suitable for the application of a resin finish.

The tensile strength of the substrate should exceed 1.5 MPa. The residual moisture content should be less than 4%.

PRIMER 601 should be applied when substrate temperatures are constant or falling to minimise the risk bubble and void formation due to expansion of air within the substrate when temperatures are rising. This is particularly important to note on external applications.

The curing reactions are influenced by the ambient, material and substrate temperatures. Low temperatures lengthen the pot life, open- and curing times. High temperatures shorten pot life, open- and curing times.

The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 24 hours (at 15 °C).

Application

PRIMER 601 is supplied in working units packed in the exact mix ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 20 °C.

Pour the entire contents of part B into the container of part A. Mix with a low speed (ca.300 rpm) electric drill and paddle at for at least 3 minutes until homogeneous. Scrape the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air.

Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute.



The Chemical Company

If required PRIMER 601 can be extended with FILLER F1 to produce a scratchcoat slurry for uneven substrates, this should be added to the fully mixed materials under continuous mixing until uniformly distributed. Scratchcoats are applied by trowel.

PRIMER 601 is applied by squeegee and finished by roller. Ensure that the primer layer is complete to fully seal the substrate concrete.

Broadcast FILLER F5 into the still wet primer to provide a bond bridge for subsequent layers.

Protect the fresh primer from water and condensation which can cause a white bloom and tackiness which will be detrimental to subsequent layers.

Consumption

PRIMER 601: Typically 0.3 – 0.5 kg/m² depending upon surface texture and porosity of the substrate concrete. Very porous substrates may require double priming.
FILLER F5: Typically 1.0 kg/m²
Refer to System Data Sheet

Cleaning agent

Tools must be cleaned immediately after use with BASF CLEANING SOLVENT NO.2 or other suitable solvent.

Packaging

PRIMER 601 is supplied in 10 kg and 30 kg packs.

Storage

Store in original containers under normal warehouse conditions. Off the ground, dry and at a temperature between 15 – 25° C. Do not expose to direct sunlight. For maximum shelf life under these conditions, see "Best before....." label.

Warnings and precautions

In its cured state, PRIMER 601 is physiologically non-hazardous.

Operatives should consult the CoSHH risk assessment and their work instructions.

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

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