

MASTERTOP® P 681

Two component primer for use on steel

DESCRIPTION

Mastertop P 681 is a pigmented, two component epoxy resin based primer with corrosion protection properties.

RECOMMENDED FOR

Mastertop P 681 is intended for use on steel (not stainless) under Mastertop and Conipur coating materials.

FEATURES AND BENEFITS

- Protects steel from corrosion
- Excellent adhesion
- Application to vertical surfaces

PERFORMANCE DATA

Mixing ratio	by weight		3:1
Density		g/cm ³	1.23
Working time (10kg unit)	at 20°C	min	approx 30
Re-coating interval	at 10°C	hours	min. 10
		days	max. 1.5
	at 23°C	hours	min. 5
		days	max. 1
	at 30°C	hours	min. 2.5
		days	max. 0.5
Permissible ambient and substrate temperatures		°C	min. 8
		°C	max. 30
Permissible relative humidity	at 8 °C	%	75
	at >23 °C	%	85

- Above figures are guide values and should not be used as a base for specifications.

ESTIMATING DATA

The consumption of **Mastertop P 681** is between 0.3 – 0.4 kg/m² per coat depending on the condition of the substrate. **Mastertop P 681** is always be applied in two coats.

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

APPLICATION

Mastertop P 681 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 25 °C. The part A contains pigments which may have settled. **Mastertop P 681** Part A should, therefore, be well stirred before use.

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 (ca. 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. **Mastertop P 681** is applied to the prepared substrate by brush or roller. **Mastertop P 681** must be applied in 2 coats The second coat should be broadcast with oven dried silica sand (0.3 – 0.8 mm) at approx. 0.8 to 1.0 kg/m² in order to improve adhesion of the following coat. Observe recoating intervals. 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.

After application, the material should be protected from direct contact with water for approx. 24 h (at 20° C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. The temperature of the substrate must be at least 3 K above the dew point.

Substrate pre-treatment

The surface to which **Mastertop P 681** is to be applied must be clean and dry and free from oil, grease and loose material and any other substance which may impair adhesion. Steel substrates should be sand blasted to an SA 2.5 finish according to DIN 55928 Part 4. When being used to prime steel reinforcement in concrete, the moisture content of the concrete should not exceed 4 %.

PACKAGING

Mastertop P 681 is supplied in 1 kg and 10 kg working packs.

STORAGE

Store in original containers, under dry conditions and a temperature between 15–25 °C. Do not expose to direct sun-light. For maximum shelf life under these conditions, see "Best before..." label.

PRECAUTIONS

In its cured state, **Mastertop P 681** 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 the 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 additional references to safety-hazard warnings, regulations regarding transport and waste management please refer to the relevant Material Safety Data Sheet. The regulations of the local trade association and/or other



The Chemical Company

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authorities, regulating safety and hygiene of workers handling epoxy resins 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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