

MASTERTOP® P 660

Rapid curing polyurethane primer

DESCRIPTION

MASTERTOP P 660 is a low viscosity, two component, solvent free, rapid curing, polyurethane primer which exhibits excellent adhesion to both concrete and to asphalt.

RECOMMENDED FOR

MASTERTOP P 660 is primarily intended for use as a primer for use on both concrete and asphalt substrates in certain carpark deck applications. On concrete substrates, **MASTERTOP P 660** is only to be used on suspended slab decks with a moisture content of less than 4% and where there is no risk of rising damp.

FEATURES AND BENEFITS

- Rapid cure
- Excellent bond to both asphalt and concrete
- Low viscosity
- Excellent penetration
- Seals concrete pores

TECHNICAL DATA

Mixing ratio A : B	by weight		100 : 63
Density Part A	at 23°C	g/cm ³	1.01
Part B			1.22
Viscosity Part A	at 23°C	mPas	1100
Part B			120
Mixed			600
Pot-life	at 23°C	min	15
Spray Membrane Application (with broadcast sand in the MASTERTOP P 660)	at 10°C	hr	min. 10
	at 20°C	hr	max. 36
		hr	min 5
	at 30°C	hr	max 36
		hr	min 3
		hr	max 24
Hand Applied Membrane / Re-coat application (with broadcast sand in the MASTERTOP P 660)	at 10°C	hr	min. 10
	at 20°C	hr	max. unlimited
		hr	min 5
	at 30°C	hr	max unlimited
		hr	min 3
		hr	max unlimited
Permissible ambient and substrate temperature		°C	min. 5 max. 40
Permissible relative humidity		%	max. 85
VOC content		g/L	1

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

SUBSTRATE PRE-TREATMENT

Concrete substrates must be at least 28 days old and 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 scabbling (including the necessary post-treatment) are the preferred floor preparation methods.

After surface preparation the tensile strength of the substrate should exceed 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 must not exceed 4% (check with e.g CM device).

Asphalt substrates must be shot or grit blasted to reveal at least 60% of the aggregate.

ESTIMATING DATA

The consumption of **MASTERTOP P 660** is between 0.3-0.5kg/m² depending on the condition and porosity of the substrate. A second coat of 0.2-0.4kg/m² of **MASTERTOP P 660** is recommended on particularly porous substrates. Oven dried silica sand 0.3-0.8mm should be broadcast at approximately 1.0kg/m² into the still wet primer.

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

APPLICATION

MASTERTOP P 660 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.

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.

MASTERTOP P 660 should be applied when the ambient temperature is constant or falling as this will decrease the risk of bubble formation due to expansion of air that is enclosed in the concrete. After mixing, **MASTERTOP P 660** is applied to the substrate by spreading with a squeegee and finishing with a roller. If broadcast sand is to be used, then the oven dried sand should be broadcast into the still wet primer. The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical



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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 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 approximately 4 hours (at 15°C). The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least 4 hours after application (at 15°C).

For more information please see application details in Conideck system datasheets.

CLEANING

Re-usable tools should be cleaned with Cleaner 40.

PACKAGING

MASTERTOP P 660 is supplied in 10kg working packs.

Part A = 6.14kg

Part B = 3.86kg

SHELF LIFE

Store in original packs under dry conditions and a temperature between 15-25°C. Do not expose to direct sunlight. Under those conditions MASTERTOP P 660 has a shelf life of 12 months.

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 MASTERTOP P 660 is < 500 g/l (for the ready to use product).

Warning and precautions

In its cured state, MASTERTOP P 660 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 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 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 either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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