

MASTERTOP[®] P642 ECC

A two component, water dispersed epoxy primer

DESCRIPTION

MASTERTOP P642 ECC is a low viscosity, two component, water dispersed epoxy primer which exhibits excellent adhesion to concrete.

FIELDS OF APPLICATION

MASTERTOP P642 ECC is primarily intended as a primer designed for use on concrete and cementitious substrates in the epoxy-cementitious floor topping.

FEATURES AND BENEFITS

- Low viscosity
- Water dispersed and odourless
- Environmentally friendly
- Excellent bond to concrete
- Good bond to damp surface

PROPERTIES

Mix ratio : A (Base):B (Hardener)
(by weight) 1:3

Density (at 23°C)

Part A : 1.10 - 1.012 g/cm³
Part B : 1.01 - 1.03 g/cm³

Viscosity (at 23°C)

Part A : 100 - 200 MPas
Part B : 10 - 25 MPas
Mixed : 300 - 450 MPas

Pot life (at 23°C) : ~ 45 minutes

Re-coating interval (at 23°C) : Min. 6 hours
Max. 24 hours

Recommended substrate temperatures : Min. 10 °C
Max. 35 °C

Recommended relative humidity : Max. 85%

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

APPLICATION

Surface preparation

Concrete substrates must be structurally sound 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.

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After surface preparation, the tensile strength of the substrate should exceed 1.5N/mm² (check with an approved pull-off tester at a load rate of 100 N/s). Asphalt substrates must be shot or grit blasted to reveal at least 60% of the aggregates.

Mixing

MASTERTOP P642 ECC 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. Shake the Part A and put it in a clean mixing pail. Shake the Part B and pour the entire contents 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 P642 ECC 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 P642 ECC** is applied to the prepared substrate by spreading with a squeegee and finishing with a roller. The curing time of the material is influenced by the ambient, material and substrate temperatures.

After application, the material should be protected from direct contact with water for approximately 6 hours (at 25 °C).

Ensure primed surface is tack-free before application of **MASTERTOP 542 ECC**.

CLEANING

Clean tools and equipment water immediately after use. Hardened material must be removed by mechanical means.

ESTIMATING DATA

The consumption of **MASTERTOP P642 ECC** 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



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kg/m² of **MASTERTOP P642 ECC** is recommended on particularly porous substrates.

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

PACKAGING

MASTERTOP P642 ECC is supplied in 4 kg pack consisting of Base and Hardener.

SHELF LIFE

MASTERTOP P642 ECC can be kept for 12 months from date of production when stored in original sealed

containers, under dry conditions and a temperature between 15 to 25°C. Do not expose to direct sunlight.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

PRECAUTIONS

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

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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.

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