

MasterSeal® P 691 (Formerly known as Mastertop® P 691)

Single Component Polyurethane Based Adhesion Primer

DESCRIPTION OF PRODUCT

MasterSeal® P 691 is a fast curing, single component, moisture curing, clear polyurethane adhesion promoting primer. **MasterSeal® P 691** contains solvent.

FIELDS OF APPLICATION

MasterSeal® P 691 is designed for use as an adhesion promoting primer on **MasterSeal®** membranes. Its uses include the application of a new membrane to an aged membrane e.g. in repair applications. It can also be used on aged membranes when renewing or repairing the UV protective top coat. **MasterSeal® P 691** can also be used as a primer on sand broadcast epoxy primers prior to the application of a spray applied membrane in applications where the membrane is permanently exposed to water.

FEATURES AND BENEFITS

- Excellent adhesion to aged membranes especially in applications where the membrane is permanently exposed to water
- Rapid cure
- Long re-coating interval
- Low viscosity
- Low consumption
- Easy to apply

APPLICATION PROCEDURE

Preparation of Substrate

The concrete substrates on which the product is going to be applied should be C25 or dosage of 350 minimum and the concrete should be 3 weeks old at least. After the preparation of the surface, the tensile strength of the substrate should exceed 1.5 N/mm² (tested with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate should not exceed 4% (tested with e.g. CM device). A damp proof course should be installed properly and be intact. The substrate temperature should remain +8°C minimum and the temperature of the substrate should at least be 3 K above the current dew point.

TECHNICAL DATA

MasterSeal® P 691	Polyurethane
Colour	Clear
Solids Content	60%
Density	1,03 kg/liters
Viscosity	110 mPa.s
Recommended Application Temperature Range	80 -30°C
Re-coating Interval/Ready for Traffic	Min. 1 h Max. 24 h

The above figures are valid for 23°C and intended as a guide only and should not be used as a basis for specifications.

All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed. Bubble formation on the surfaces which absorbed oil should be removed with the usage of a blastrack or rotatiger. Oil contaminated substrates should first be pre-cleaned with an emulsifying cleaning detergent according to the supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressured water jet and excess water should be removed by a wet/dry vacuum cleaner.

APPLICATION METHOD

MasterSeal® P 691 is a single component material. Prior to application, it should be conditioned to a temperature of 15°C to 25°C. Pour the amount required from the original container and apply by spreading with a squeegee followed by back rolling. It is important to apply **MasterSeal® P 691** thinly and to avoid ponding. The curing time of the material is influenced by the humidity and the ambient and substrate temperatures. **MasterSeal® P 691** is air curing and will foam if applied too thickly. It is, therefore, important to apply **MasterSeal® P 691** thinly and to avoid ponding. Apply uniformly and finish by back rolling. The curing time of the material is influenced by the humidity and the ambient and substrate temperatures.

COVERAGE

The consumption of **MasterSeal® P 691** is 0.05 - 0.10 kg/m² depending on the condition and porosity of the substrate.

WATCH POINTS

- Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10°C or above +30°C.
- The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.
- In extremely cold conditions, heaters should be used to increase the ambient and the workability of the

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product, the packages should be preconditioned to +20°C - +25°C to become ready to use.

- Epoxy and polyurethane based floor coatings should be applied by specialists.
- The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits. After the application, the material should be protected from direct contact with water for 24 hours minimum. Within this period, a contact with water may cause a surface carbonation and/ or tackiness; both of which will cause the coating to lose its characteristics. In such cases, the overall coating should be removed from the floor and renewed. Permissible relative humidity 40%-90%.
- **MasterSeal® P 691** as ready-to-use kits. No solvent etc should be added during application.
- The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages.

CLEANING OF TOOLS

Used tools and equipment must be cleaned carefully with an appropriate solvent. Once cured **MasterSeal® P 691** can only be removed by mechanically.

PACKAGING

MasterSeal® P 691 supplied in 24 kg working packs

STORAGE

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palettes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palettes should not be placed on top of each other during long term storage.

SHELF LIFE

The shelf life is 12 months from the date of production under suitable storage conditions. Opened packages should be stored under suitable storage conditions and used within 1 week.

HEALTH AND SAFETY PRECAUTIONS

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which

comply with the Occupational Health and Safety Precautions Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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