

MasterSeal[®] P 691

A single component, solvent-based primer, moisture curing, for use below and on MasterSeal membranes

DESCRIPTION

MasterSeal P 691 is a single component, moisture curing polyurethane primer. It contains solvents.

TYPICAL APPLICATIONS

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.

ADVANTAGES

- 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

PACKAGING AND COLORS

MasterSeal P 691 is supplied in cans of 19.5kg and available in Clear.

APPLICATION GUIDELINES

SURFACE PREPARATION

The surface to which **MasterSeal P 691** is to be applied must be clean and dry and free from oil and grease and any other substance which may impair

The temperature of the substrate must be at least 3K above the dew point.

MIXING

PLACING / APPLICATION

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. At low humidity and low temperatures, the chemical reaction is slowed down; this lengthens the curing time and the re-coating intervals. At high humidity and high temperatures the chemical reaction is accelerated thus the time frames mentioned above are shortened accordingly. If the maximum re-coating times are exceeded, **MasterSeal P 691** should be re-applied. Following application, the material should be protected from direct contact with water which will impair adhesion to the subsequent coat. Ensure that the solvent contained in the material is allowed to flash off completely before applying the subsequent coat. The temperature of the substrate must be at least 3K above the dew point both during the application and for at least 4 hours after the application (at 15°C).

CLEANING

Re-useable tools should be cleaned carefully with a suitable thinner (Xylene / MEK / Acetone).

COVERAGE / YIELD

The consumption of **MasterSeal P 691** is between 0.05 and 0.1 kg/m² depending on the condition and porosity of the substrate.

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

MasterSeal® P 691

TYPICAL PROPERTIES*

Properties	Result
Chemical base	PU
Mixing ratio	single component (A:B)
Density	1.03 g/cm ³
Viscosity	110 mPas
Recoating interval @ 23°C, 50% r.h. @ 10°C, 60% r.h.	Min 1 hour Max. 24 hours Min 2 hours Max. 36 hours
Substrate and ambient temperatures	min. 5°C max. 30°C
Permissible relative humidity	min. 40% max. 90%

*

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

STORAGE AND SHELF LIFE

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

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 500g/l (Limit: Stage 2, 2010). The VOC content for **MasterSeal P 691** is <500g/l (for the ready to use product).

HEALTH AND SAFETY

In its cured state, **MasterSeal P 691** is physiologically non-hazardous. The following protective measures should be taken when working with this 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. Respiratory protection must be worn when spraying or when in the vicinity of the spraying operation.

When working in well ventilated areas, a combined char-coal filter and particle filter mask (A-P2) should be worn. When working in less well ventilated and in confined spaces, air-fed helmets are to be worn by sprayer and assistant(s). 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 authorities, regulating safety and hygiene of workers handling polyurethane and isocyanates must be followed.

MasterSeal® P 691

CE-marking (EN 1504-2)


	
1119	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
07	
169101	
EN 1504-2: 2004	
Surface protection product – coatings EN 1504-2: ZA.1d, ZA.1e, ZA.1f and ZA.1g	
Abrasion resistance	<3000mg
Permeability to CO ₂	Sd > 50
Permeability to water vapour	Class III
Capillary absorption and permeability to water	< 0.1 kg/(m ² xh ^{0.5})
Thermal compatibility after freeze-thaw cycling	≥1.5N/mm ²
Resistance to severe chemical	Reduction of hardness < 50%
Crack bridging ability	B 4.2 (-20°C)
Impact resistance	Class I
Adhesion strength by pull off test	≥1.5N/mm ²
Reaction to fire	C _{fl} – s1
Skid resistance with MasterSeal TC 258 with MasterSeal TC 681	Class III Class I

NPD = No Performance Determined

Performance determined in system build up

MasterSeal Traffic 2205

CE-marking (EN 13813)

	
Master Builders Solutions Deutschland GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
07	
169101	
EN 13813: 2002	
Synthetic resin screed for use internally in buildings EN 13813: SR-B1,5-AR1-IR4	
Essential characteristics	Performance
Fire behaviour	Efl
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	<AR 1
Bond strength	>B 1,5
Impact resistance	>IR 4
Impact sound insulation	NPD
Sound absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD
Slip/Skid resistance	NPD
Emissions behaviour	NPD

NPD = No Performance Determined

Performance determined in system build up

MasterSeal Traffic 2205

® = Registered trademark of the MBCC Group in many countries.

* Properties listed are based on laboratory controlled tests.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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 Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

Disclaimer: the TUV mark relates to certified management system and not to the product mentioned on this datasheet



A brand of
MBCC GROUP

MBS_CC-UAE/SI_P691_02_16/v1/