

# MasterSeal P 640

Single component polyurethane primer for MasterSeal M 635 & MasterSeal M 640

## DESCRIPTION

**MasterSeal P 640** is a single component, polyurethane based, solvent containing primer for absorbent surfaces in applications where **MasterSeal M 640** is utilized.

## RECOMMENDED USES

- Primer for polyurethane waterproofing membrane like certified **MasterSeal M 635** and **MasterSeal M 640**
- Can be employed on concrete and cement mortar.

## FEATURES AND BENEFITS

- Single component product that allows simple application without the need of mixture.
- Excellent adhesion.
- Excellent penetration and sealing of pores of concrete.
- Fast Curing.
- Elasticity to absorb substrate movements.
- Resistant to standing water
- Frost resistant

## APPLICATION

### Application method

**(a) Surface Preparation:** All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean of oil, grease, paint stains and other adhesion impairing contaminants. Temperature of the support should be minimum +5°C and maximum +35°C. Profile mechanically the surface by shot blasting, high pressure water jetting or other suitable mechanical preparation method. After surface preparation the tensile strength of the substrate should exceed 1N/mm<sup>2</sup> (check with an approved pull-off tester). The residual moisture content of the substrate must not exceed 4% (check with e.g. CM device). The temperature of the substrate must be at least 3°C above the current dew point temperature.

### (b) Mixing

**MasterSeal P 640** is a single component material. Prior to application, the temperature of the material should be in the range of 15-25°C.

### (c) Application

**MasterSeal P 640** is applied normally in one coat, homogeneously covering the substrate. In certain cases, for complete sealing of substrate a second coat may be necessary. Try to keep the temperature uniform during application and hardening. The product must not be applied when the temperature is

below +5°C or above 35°C. Do not mix solvents, sand or other products that could affect the products properties must not be added. After maximum 4 hours apply the waterproofing membrane. Refer to TDS for application guidelines.

## COVERAGE

Approx. 200-250g/m<sup>2</sup> are required per layer. These consumptions are theoretical and can vary according to the absorption and roughness of the support. It is essential to carry out representative trials on site to evaluate the exact consumption.

## FINISHING AND CLEANING

While still wet with solvent (**MasterTop THN 2**). Once cured it can only be removed mechanically.

## PACKAGING

**MasterSeal P 640** is available in 5kg and 17kg.

## COLOUR

Semi-transparent

## SHELF LIFE

Store in cool and dry warehouse conditions between 15-25°C. Do not expose to direct sunlight. Shelf life in these conditions is 12 months in unopened original containers.

## WATCHPOINTS

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the minimum 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 640** is <500g/l (for the ready to use product)

## HANDLING/PRECAUTIONS

In its cured state, **MasterSeal P 640** 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 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 authorities regarding safety and hygiene of workers handling polyurethanes and isocyanates must be observed.

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TECHNICAL DATA*			
Properties	Standard	Data	Unit
Chemical Base	-	Polyurethane	-
Mixing Ratio	A : B	single component	-
Solids Content (at 20 °C)	-	51	%
Density (at 20 °C)	-	1.0	g/cm <sup>3</sup>
Viscosity (at 20 °C)	-	220	mPas
Re-coating interval / 23 °C, 50 % rel. h.	-	min. 2 max. 5	h h
Fully cured / 23 °C, 50 % rel. h.	-	7	d
Substrate and Ambient Temperatures	-	min. 5 max. 35	°C °C
Permissible Relative Humidity	-	max. 85	%

## Technical data after curing\*

Properties	Standard	Data	Unit
Service Temperatures	-	min. - 20 max. 80	°C °C
Shore A hardness	ASTM D 2240	> 95	-
Adhesion to Concrete	ASTM D 903	> 2,2	N/mm <sup>2</sup>

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

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<b>CE-MARKING (ETAG 005)</b>	
	
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Master Builders Solutions Coatings GmbH Donnerschweer Str. 372, D-26123 Oldenburg	
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364001	
ETAG 005 – Part 6	
Liquid applied roof waterproofing kits based on polyurethane resin	
Water vapour diffusion resistance factor $\mu$	1830
Resistance to wind loads	> 50 kPa
Resistance to spreading fire and radiant heat	NPD
Reaction to fire	Class E
Statement on dangerous Substances	Does not contain any
Working Life	W2
Climatic Zones	M and S
Imposed Loads	P1 to P3
Roof Slope	S1 to S4
Lowest surface temperature	TL3
Highest surface temperature	TH3
NPD = No performance determined. Performance determined in system build up <b>MasterSeal Roof 2164</b>	

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