

MasterSeal P681

Non-solvented, pigmented, epoxy resin based primer for use on mild steel

DESCRIPTION

MasterSeal P681 is a non-solvented, low viscosity, two component epoxy resin based primer with corrosion protection properties for use on mild steel.

MasterSeal P681 is included in several approval certificates for various waterproofing applications. For a full list of approvals please contact Master Builders Solutions UK Ltd

FIELD OF APPLICATION

MasterSeal P681 is designed for use as a primer on mild steel substrates prior to the application of MasterSeal Roof waterproofing membranes.

Please refer to individual system data sheets.

FEATURES AND BENEFITS

- Protects steel from corrosion
- Easy to apply
- Excellent adhesion
- Application to vertical surfaces

SUBSTRATE PRE-TREATMENT

All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination that might impair adhesion.

Steel substrates should be sand blasted to an SA 2.5 finish according to DIN 55928 Part. 4. When used to prime steel in reinforced concrete, the moisture content of the concrete should not exceed 4%.

Application of MasterSeal P681 must be completed before an oxide layer is able to form.

APPLICATION CONDITIONS

For best results, materials, substrate and air temperature should be in the range 15 – 25°C.

Low temperatures will reduce flow and high temperatures will shorten the open time.

The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 24 hours (at 15°C).

APPLICATION

MasterSeal P681 is supplied in working units. Before mixing, both A and B components should be preconditioned to a temperature of 15 to 25°C.

Pour the entire contents of part B into the container of part A. Mix with a low speed (ca.300rpm) electric drill and paddle at for at least 3 minutes until homogeneous. Scrape the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air.

Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute.

MasterSeal P681 is applied in two coats by brush or roller. MasterTop F5 should be broadcast in to the second still wet coat.

The curing time of the material is influenced by the ambient, material and substrate temperature. Low temperature will lengthen the open and curing time. High temperature will shorten the open and curing time.

COVERAGE

MasterSeal P681: Always applied in two coats typically at 0.3 – 0.4kg/m² per coat

Second coat broadcast with FILLER F5: Typically 1.0kg/m² per coat.

Refer to System Data Sheet

FINISHING AND CLEANING

Tools must be cleaned immediately after use with xylene or other suitable solvent.

CURING

Full cure is reached in 5 days after the application at a constant temperature of 23°C.

WORKING TIME

30 minutes in 20°C ambient and substrate temperature.

PACKAGING

MasterSeal P681 is supplied in 10kg working packs

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STORAGE

Store in original containers under normal warehouse conditions. Off the ground, dry and at a temperature between 5 – 30°C. Do not expose to direct sunlight.

SHELF LIFE

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 type sb is 500 g/l (Limit: Stage 2, 2010). The VOC content for MasterSeal P681 is < 500 g/l (for the ready to use product).

HANDLING AND TRANSPORT

Usual preventive measures for the handling of chemical products should be observed when using this product, for example do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed.

Specific safety information referring the handling and transport of this product can be found in the Material Safety Data Sheet. For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

Disposal of product and its container should be carried out according to the local legislation in force. Responsibility for this lies with the final owner of the product.

CONTACT DETAILS

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Product Data	
Density / g/cm ³	1.23
Working time at 20°C / min	30
Recoat interval at 23°C	
Minimum / hours	5
Maximum / days	1
Fully cured at 23°C / d	5
Ambient and substrate temperature	
Minimum / °C	8
Maximum / °C	30
Maximum relative humidity	
At 8°C / %RH	75
At 23°C / %RH	85

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



When MasterSeal P681 is used as a primer underneath other MasterTop and MasterSeal products the system conforms to the relevant CE marks.

Please refer to the relevant Declaration of Performance and the product and system data sheets.

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Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.