

MasterSeal P688 RC

Rapid curing polyurea concrete primer for internal and external use

DESCRIPTION

MasterSeal P688 RC is a rapid curing, solvent free, low viscosity, two component polyurea resin based primer.

FIELD OF APPLICATION

MasterSeal P688 RC is designed for use as a primer on mineral substrates such as concrete and cementitious screeds prior to the application of MasterSeal waterproofing membranes, MasterTop flooring systems and MasterEmaco repair mortars.

A functioning damp proof membrane must be installed under on-grade concrete and known to be effective.

FEATURES AND BENEFITS

- rapid curing, can be overcoated after 30 minutes
- suitable for internal and external applications
- low viscosity, easy to apply by roller or squeegee
- excellent penetration
- seals pores, capillaries and cracks
- excellent bond to substrate
- can be used as a scratch coat

SUBSTRATE PREPARATION

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

Mechanical preparation such as captive shot blasting, scarification, and diamond grinding for edge work should be used to produce a substrate surface profile suitable for the application of a resin finish.

The tensile strength of the substrate should exceed 1.5MPa.

New concrete should be designed such that the residual moisture content would be less than 4% by weight once cement hydration is complete. For example, a concrete with 350kg cement per cubic metre should have a maximum water to cement ratio of 0.5.

If an old concrete is found to have a high moisture content the cause should be investigated and remedied. (e.g. a damaged or missing DPM, leaking drains or pipes, etc.)

The substrate concrete should be at least 7 days old and the surface of the concrete should be surface dry prior to the application of MasterSeal P688 RC

MasterSeal P688 RC should be applied when substrate temperatures are constant or falling to minimise the risk of bubble and void formation due to expansion of air within the

substrate when temperatures are rising. This is particularly important to note on external applications.

The curing reactions are influenced by the ambient, material and substrate temperatures. Low temperatures lengthen the pot life, open- and curing times. High temperatures shorten pot life, open- and curing times.

MasterSeal P688 RC should be applied when the surface to be coated has conditions that are below 85% Relative Humidity and/or 3°C above dewpoint on the surface. This should be for a period of at least two hours prior to application.

APPLICATION

MasterSeal P688 RC is supplied in working units. Before mixing, precondition both part A and part B components to a temperature of above 10°C to assist with ease of mixing.

Pour the entire contents of part B into the container of part A. Mix with a slow speed (ca.300 rpm) electric drill and paddle for at least 2 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 as this can reduce the pot life.

If required, MasterSeal P688 RC can be extended with MasterTop F1 filler to produce a scratchcoat slurry for uneven substrates, this should be added to the fully mixed material under continuous mixing until uniformly distributed. Scratchcoats are applied by trowel.

MasterSeal P688 RC is applied by squeegee, roller or brush. Ensure that the primer completely seals the concrete substrate. A second coat may be required if the surface is porous.

Fully broadcast MasterTop F5 filler to refusal into the still wet primer within 10 minutes of application; to provide a mechanical key for subsequent layers.

COVERAGE

MasterSeal P688 RC:

Typically 0.15kg/m² depending upon surface texture and porosity of the substrate concrete.

MasterTop F5 Filler: Typically 2-3 kg/m² to fully sand blind the primer surface to refusal .

FINISHING AND CLEANING

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

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WORKING TIME

MasterSeal P688 RC is a rapid curing primer and must be applied immediately upon completion of mixing. Whilst the body of the mixed resin will remain mobile a film will form on the surface of the unagitated primer after approximately 45 minutes.

PACKAGING

MasterSeal P688 RC is supplied in 5kg and 10 kg working packs.

STORAGE

Store in original containers under normal warehouse conditions, clear of the ground. Protect the material from all sources of moisture and frost.

SHELF LIFE

12 months when stored under these conditions.

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 500 g/l (Limit: Stage 2, 2010). The VOC content for MasterSeal P688 RC 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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| Technical data* | | | |
|---|-----------|-------------------|-------------------|
| Mix ratio | | by weight. | 1 : 1 |
| Mixed density | at 20°C | g/cm ³ | 1.06 |
| Pot-life | at 20°C | mins | 45 |
| Re-coating intervals | at 10°C | mins | min 40 |
| | at 20°C | mins | min. 20 |
| Permissible ambient and substrate temperature | | °C °C | min. 1 max. 30 |
| Permissible relative humidity max. | at 10°C | % | 75 |
| | at > 23°C | % | 85 |

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

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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.