

MasterSeal TC681

Two component, polyaspartic, rapid curing, hard wearing coating

DESCRIPTION

MasterSeal TC681 is a VOC free, rapid curing, low viscosity, hard wearing, two component, UV and weather resistant coating.

MasterSeal TC681 cures to a highly cleanable gloss finish.

FIELD OF APPLICATION

MasterSeal TC681 is designed for use as a wear resistant finish suitable for trafficked areas in a variety of waterproofing and flooring applications including roofing, balconies, podium and car park decks. It is used as an encapsulation resin on broadcast substrates.

Refer to individual system data sheets.

FEATURES AND BENEFITS

- Rapid cure – short “ready for traffic” times
- Excellent UV and weather resistance
- Excellent mechanical properties
- High elasticity
- Easy to apply
- Low viscosity
- Crack bridging
- Low odour

SUBSTRATE PRETREATMENT

The coating to MasterSeal TC681 is to be applied must be clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion.

Ensure broadcast substrates are properly dry.

Application should take place within the re-coat interval of the coating to which it is to be applied. Refer to system data sheet.

APPLICATION CONDITIONS

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

Low temperatures will reduce flow and can impair the visual appearance of the roof. High temperatures will shorten the open time and can impair the appearance of the roof.

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 2 hours (at 15°C).

APPLICATION

MasterSeal TC681 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 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.

Apply MasterSeal TC681 polyurethane sealer to specified colour by squeegee and back rolling. Application should be crosswise and finished off with a separate, wide roller.

Start along the shortest side of the roof to be coated, working a wet edge to the opposite end. Care should be taken to avoid dry edges and late rolling that will produce roller marks in the finished surface.

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

COVERAGE

Typically 0.6–0.9kg/m² depending on size and distribution of aggregate.

Refer to System Data Sheet

FINISHING AND CLEANING

Tools may 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 20 °C.

PACKAGING

MasterSeal TC681 is supplied in 28kg 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 is 500 g/l (Limit: Stage 2, 2010. The VOC content for MasterSeal TC681 is < 500g/l (for the ready 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	
Pt A density g/cm ³	1.74
Pt B density g/cm ³	1.07
Mixed density g/cm ³	1.40
Viscosity / mPas at 23°C	700
Pot-life at 23°C min	25
Fully cured at 20°C / d	5
Ambient and substrate temperature minimum / °C	5
maximum / °C	40
Relative humidity maximum / % RH	85
Tensile Strength Nmm ⁻² DIN53504	20
Elongation / % DIN53504	180
Colour ¹	Available in a range of colours

Notes: ¹. For further information contact Master Builders Solutions UK Ltd

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



When MasterSeal TC681 is used as a topcoat with other MasterSeal and MasterTop 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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MasterSeal TC681 – Master Builders UK Ltd, Version 1

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.