



The Chemical Company

MASTERTOP® 1109

Clear water dispersed epoxy floor and wall coating Formerly known as Mastertop 1110 Clear

Description of Product

MASTERTOP® 1109 is a two component, solvent free, water dispersed epoxy coating system which cures to a satin finish. It is designed to provide protection to concrete surfaces in light to medium duty applications. It is also used as a clear topcoat on flake wall and floor systems

Fields of Application

MASTERTOP® 1109 is used to provide a clear dust proof coating for concrete floors, and walls, in a wide range of light industrial and warehousing applications.

- Production and assembly halls
- Packing halls
- Warehousing and storage
- Wall coatings in food and other industries requiring high hygiene standards
- Plant rooms and technical areas

And as part of a decorative flake coating system in

- Commercial and retail
- Healthcare
- Educational
- Institutional

Features and Benefits

- Solvent free and low odour
- Easy application by roller, brush or airless spray
- Durable economic finish for light duty areas
- Excellent maintenance and cleaning properties reduces cleaning costs
- High clarity satin finish
- Vapour permeable for application to damp substrates

Colours

MASTERTOP® 1109 is clear.

Slip resistance

Slip resistance is dependent upon the roughness of the substrate, the nature of any polishes used and the standards of housekeeping. Typically the coefficient of friction as measured using the TRRL slip resistance tester and 4s rubber, when applied to a smooth substrate, is as follows

	dry	wet
On a smooth substrate	70	-

Cleaning and maintenance

Good housekeeping will enhance the life of any floor. A wet clean with mild organic detergents will help keep the floor clean and bright. For further information consult separate cleaning and maintenance guidelines.

Technical data

Mixed density g/cm ³	1.08
Viscosity at 23 °C / mPas	thixotropic
Working time / minutes	45
10 kg unit at 20 °C	
Re-coat intervals at 20 °C	
minimum / hours	16
maximum / days	2
Fully cured at 20 °C / d	7
Ambient and substrate temperature	
minimum / °C	10
maximum / °C	30
Relative humidity	
maximum / % RH	70

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



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Method Statement

Environment

The applicator requires sole access to the area throughout the application. The area should be closed to the environment, clean and dust free. Dust from trades in adjacent areas can impair the visual appearance of the finish.

It is prudent to ensure that the floor installation is undertaken as the final operation during refurbishment works to preclude damage by other trades.

For best results, materials, substrate and air temperature should be in the range 15 – 20 °C.

Low temperatures will reduce workability and can impair the visual appearance of the floor.

High temperatures will shorten the open times and can impair the appearance of the floor.

Do not commence work if temperatures are within 3 °C of the dew point or if condensation is likely to occur within 48 hours (at 20°C) of application.

Substrate

MASTERTOP® 1109 must be applied to a clean substrate free from dust, dirt, oil, grease and other contaminants. A clean surface will ensure adhesion between substrate and overlay.

Use mechanical methods of surface preparation as dictated by the size of area to be treated, the location and degree of contamination. It should be noted that surface texture will reflect through a thin coating.

The substrate should be sound with a tensile strength exceeding 1.5 MPa. Any repairs to the substrate must be undertaken in good time prior to the application.

It is advisable to pre-dampen the prepared concrete surface prior to application.

Joints

Reflect all joints in the substrate accurately through the coating, as a bonded system will crack where there is differential movement in the host concrete.

Fill joints with a suitable sealant.

Application

MASTERTOP® 1109 is supplied in working units packed in the exact mix ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 20 °C.

Premix the components separately then mix together with a low speed (ca.300 rpm) 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.

When water is to be added to the MASTERTOP® 1109, this should be added to the fully mixed materials under continuous mixing until homogenous.

Plan the work to ensure the maintenance of a wet edge. Work within the open time of the material to avoid roller marks, etc., in the finished floor.

The pot life is maximum 45 minutes at 20 °C. Material remaining after this time must be discarded, even if it remains fluid and appears to be useable

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.

First Coat

On very porous substrates the MASTERTOP® 1109 should be diluted with water, up to 0.5 litre per unit, for the first coat only.

Top Coat

Do not apply the second (or third if needed) until the previous coating is completely dry. Best results are obtained if subsequent applications are made 24 hours later.

Apply MASTERTOP® 1109 by brush, roller or airless spray to achieve a uniform finish.



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Coverage

First coat:

0.2 – 0.3 kg /m² MASTERTOP® 1109

Topcoat:

0.15 – 0.25 kg /m² MASTERTOP® 1109

Note: coverage rates are for guidance only. Actual usage will vary with the nature of the substrate and site conditions

Cleaning agent

Tools should be cleaned immediately after use with soapy water.

Packaging

MASTERTOP® 1109 is supplied in 8 kg working packs

In general one 8 kg pack MASTERTOP® 1109 will cover approximately 20 m² (two layers). Condition of the concrete surface will considerably affect consumption.

Storage

Store in original containers under normal warehouse conditions. Off the ground, dry and at a temperature between 15 – 25° C. Do not expose to direct sunlight and protect from frost. For maximum shelf life under these conditions, see "Best before....." label.

Warnings and precautions

In its cured state, MASTERTOP® 1109 is physiologically non-hazardous.

During installation operatives should consult the CoSHH risk assessment and their work instructions.

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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.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during 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:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

BASF Construction Chemicals (UK) Ltd,
Albany House,
Swinton Hall Road, Swinton,
Manchester M27 4DT
Tel: +44 (0) 161 794 7411
Fax +44 (0) 161 727 8547
www.basf-cc.co.uk