



The Chemical Company

MASTERTOP[®] 1110

Water dispersed epoxy floor and wall coating

Description of Product

MASTERTOP[®] 1110 is a two component, solvent free, water dispersed epoxy coating system designed to provide protection to concrete floors in light to medium duty applications.

Three specifications are available:

- Standard finish, a 250 micron coating
- Light textured coating
- Textured coating

Fields of Application

MASTERTOP[®] 1110 is used to provide attractive non dusting floors for a wide range of light industrial and warehousing applications. For internal applications.

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

Features and Benefits

- Solvent free and low odour
- Durable economic finish for light duty areas
- Excellent maintenance and cleaning properties reduces cleaning costs
- Improves light levels and reduces lighting costs
- Slip resistant finish available for areas subject to occasional spillage
- Excellent hiding power
- Vapour permeable for application to damp substrates

Colours

A range of 11 standard colours are available, beige, oyster white, oxide red, reseda green, pale green, silver grey, pebble grey, light grey, agate grey, window grey, pure white.

A clear MASTERTOP[®] 1110 is also available.

Slip resistance

Slip resistance will vary depending upon the method and conditions of application, 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 is as follows

	dry	wet
Standard finish	70	-
Light textured coating	60	36
Textured coating	60	42

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.

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Technical data

Mixed density g/cm ³	1.2
Viscosity at 23 °C / mPas	thixotropic
Working time / minutes <i>10 kg unit at 20 °C</i>	45
Re-coat intervals at 23 °C	
<i>minimum / hours</i>	16
<i>maximum / days</i>	2
Fully cured at 20 °C / d	7
Ambient and substrate temperature	
<i>minimum / °C</i>	10
<i>maximum / °C</i>	30
Relative humidity	
<i>maximum / % RH</i>	75

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

Method Statement

Environment

The applicator requires sole access to the floor 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® 1110 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.

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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® 1110 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® 1110, this should be added to the fully mixed materials under continuous mixing until homogenous.

For the light textured coating when FILLER F5 is added to the MASTERTOP® 1110, this should be added to the fully mixed materials under continuous mixing until uniformly distributed.

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.



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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

Depending upon the absorbency of the substrate the MASTERTOP® 1110 for the first coat can be diluted with up to 10% water (up to 1 litre per unit)

For the textured coating broadcast evenly with FILLER F5 while still wet and allow to cure. Remove excess by vacuum prior to over coating

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® 1110 by roller to achieve a uniform finish.

For a light textured coating add 0.3 kg FILLER F5 to the MASTERTOP® 1110 and apply by roller.

For the textured coating, apply MASTERTOP® 1110 by squeegee and roller to achieve the required slip resistant finish.

Coverage

Standard finish

First coat:

0.2 kg /m² MASTERTOP® 1110

Topcoat:

0.18 kg /m² MASTERTOP® 1110

Light textured coating

First coat:

0.2 kg /m² MASTERTOP® 1110

Topcoat:

0.2 kg /m² MASTERTOP® 1110 with F5 FILLER

Broadcast:

3.0 kg /m² F5 FILLER

Topcoat:

0.36 kg /m² MASTERTOP® 1110

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

Textured coating

Body coat:

0.25 kg /m² MASTERTOP® 1110

Cleaning agent

Tools should be cleaned immediately after use with soapy water.

Packaging

MASTERTOP® 1110 is supplied in 10 kg working packs

In general one 10 kg pack MASTERTOP® 1110 will cover approximately 25 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. For maximum shelf life under these conditions, see "Best before....." label.

Warnings and precautions

In its cured state, MASTERTOP® 1110 is physiologically non-hazardous.

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

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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.

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