BASF
The Chemical Company

MASTERTOP® 1271 AS

Antistatic Structured Floor Coating

Description of Product

MASTERTOP® 1271 AS is roller applied solvent free epoxy resin coating system with static dissipating properties, available in a range of colours.

MASTERTOP® 1271 AS provides a structured seamless coating to floors with a good shine.

Fields of Application

The MASTERTOP® 1271 AS Flooring System is designed for use wherever the control of unwanted static electricity is required and is suitable for use in dry areas where light industrial traffic is to be encountered

- Electronic component clean rooms and manufacturing areas.
- Dry powder filling and handling areas
- Flammable gas handling areas
- Pharmaceutical
- Healthcare
- Laboratories
- Aerospace and defence
- Automotive
- Communication industries

MASTERTOP® 1271 AS floors have excellent mechanical properties and offer good abrasion and wear resistance characteristics for areas subject to light industrial traffic.

The structured finish does not impart slip resistance. Do not use as a floor in wet working environments.

Features and Benefits

- Electrically conductive to recognised international standards
- Fast curing allows light traffic after 24 hours
- Seamless, closed and dust free surface facilitates cleaning and the maintenance of hygiene s tandards
- Economical finish for low usage applications

Static Conductivity

MASTERTOP® 1271 AS meets the requirements for dissipation of static electricity
Electrical properties: DIN EN 1081 10^4 – 10^6 ohms

NB It should be noted that the control of static electricity should be seen as a 'whole environment' problem of which provision of conductive flooring is only one component. For example, care should be taken in choice of footwear and fork lift truck wheels to ensure that moving persons and vehicles are not electrically isolated from the floor surface.

Colours

A range of 6 standard colours are available:
Beige, Oxide red, Pigeon blue, Stone grey, Light grey, Window grey.

Other colours available upon request.

Slip resistance

Slip resistance will vary depending upon the method and conditions of application, the degree of surface structure, 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
Standard finish	60

Cleaning and maintenance

A wet clean with mild organic detergents will help keep the floor clean and bright. Textured and industrial floors are best cleaned with mechanical scrubber dryers. For further information consult separate cleaning and maintenance guidelines.

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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 ºC.

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

Specialist finishes should not be applied to concrete with more than 4% moisture by weight. On new concrete with a high residual moisture content use PRIMER 605, see separate data sheet. A functioning damp proof membrane must be installed under on-grade concrete and known to be effective.

MASTERTOP® 1271 AS must be applied to a clean, dry substrate free from dust, dirt, oil, grease and other contaminates. 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.

The substrate should be sound with a tensile strength exceeding 1.5 MPa. Antistatic floors must be applied at a uniform thickness. This may necessitate dubbing out or scratchcoating to achieve the required tolerance. Any repairs to the substrate must be undertaken in good time prior to the application.

Earth linkage

Earth linkage cable must be provided by the site electrical contractor. Each area of floor should have two earth connections. Earthing cables must be protected from mechanical damage during construction and in service.

Joints

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

Care should be taken that movement at joints will not lead to areas of the floor becoming isolated.

Fill joints with a suitable sealant.

Free edges

Where necessary use metal edging strips to protect free edges including at abutments to other finishes.

Priming

Normally PRIMER 601, see separate data sheet, is used for cementitious substrates. Very porous and non cementitious substrates may require special primers. Consult your local BASF Construction Chemicals office or specialist applicator for advice.

Conductive Primer

Install copper tape and connect earth linkage cables to the primed substrate. Apply CONDUCTIVE PRIMER 687 W-AS, see separate data sheet.

Body Coat

BODYCOAT 371 AS, see separate data sheet, is applied by pinrake and trowel maintaining a wet edge throughout.

Warnings and precautions

In its cured state, MASTERTOP® 1271 AS is physiologically non-hazardous.

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

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Health and Safety
*The Material Safety Data Sheet provides full information on Health and Safety matters regarding this product and must be consulted.

The following general comments apply to all resinous products.

The appropriate PPE must be used
As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs.
Avoid inhalation of dusts from powder components
Treat splashes to eyes and skin immediately.
If accidentally ingested, seek medical attention.
Keep away from children and animals.

Powder Products
Should be handled to minimise dust formation; use light non toxic particle mask.
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 and dispose of in accordance with local regulations.

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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