

MasterTop 1324 ESD

Static dissipative, crack bridging, resilient polyurethane flooring system

DESCRIPTION

A 2mm thick self smoothing resilient crack-bridging polyurethane flooring system provides a static dissipative, tough, scratch resistant floor finish suitable for use on substrates subject to vibration and dynamic forces.

MasterTop 1324 ESD is a seamless floor without joints or welds even around columns and over large open areas. Whilst being robust enough for industrial applications, the fully light stable topcoat enables light colours to be used with confidence in bright commercial and retail environments.

FIELD OF APPLICATION

The MasterTop 1324 ESD Flooring System is designed for use wherever the control of unwanted static electricity is required and is suitable for use where light to medium 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 1324 ESD floors have excellent mechanical properties and offer good abrasion and wear resistance characteristics for areas subject to light to medium duty industrial traffic.

In wet areas the anti-slip finish should be used.

FEATURES AND BENEFITS

- Electrically conductive to recognised international standards
- Crack-bridging enhances impact resistance and accommodates flexure of suspended substrates
- Joint free, even around columns and over large areas for maximum aesthetic freedom
- Can be installed on to old asphalt substrates
- Monolithically bonded to the substrate
- Seamless coving available without seams or welds even at external corners and columns
- Low Emissions AgBB
- LEED certification and EPD available

STATIC CONDUCTIVITY

MasterTop 1324 ESD meets the requirements for dissipation of static electricity

Electrical properties:

CEI IEC 61340-5-1, 10^9 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 colours are available contact your local Master Builders Solutions UK Ltd office for further information.

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
Standard finish	75

CLEANING AND MAINTENANCE

Suitable trap mats should be installed at entrances open to the street. The use of acrylic polish can provide a degree of shine and help maintain the floor in a pristine condition. A wet clean with mild organic detergents will help keep the floor clean and bright. For further information consult separate cleaning and maintenance guidelines.

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.

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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

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 MasterTop P622, see separate data sheet. A functioning damp proof membrane must be installed under on-grade concrete and known to be effective.

MasterTop 1324 ESD must be applied to a clean, dry 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.

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

Asphaltic substrates must be old and stable, well bonded to the substrate and prepared by captive shot blasting to expose the aggregate.

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

MasterTop 1324 ESD is elastic enough to accommodate substrate movement. Such joints being routed out and filled with MasterTop BC375N AS prior to application of the floor. Structural movement joints however should be continued up through the floor.

FREE EDGES

Use metal edging strips to protect free edges including at abutments to other finishes.

PRIMING

Prime the substrate with MasterTop P622, see separate datasheet. The primer should not be broadcast with aggregate. As a result, extra care must be taken to ensure overcoat times are not exceeded.

Concrete substrates must be completely sealed, some substrates may require double priming.

CONDUCTIVE PRIMER

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

BODY COAT

MasterTop BC375N AS, see separate data sheet, is applied using pinrake and trowel maintaining a wet edge throughout.

TOP COAT

Apply MasterTop TC409W ESD, see separate data sheet.

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.


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CONTACT DETAILS

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138401	
EN 13813:2002	
Synthetic resin screed material	
Fire behaviour	Bfl-s1
Release of corrosive sub-stances	SR
Water permeability	NPD
Wear resistance	< AR 1
Bond strength	> B 1,5
Impact resistance	> IR 4
Impact sound insulation	NPD
Sound absorption	NPD
Heat insulation	NPD
Chemical resistance	NPD
Slip/Skid resistance	R9
Emissions behaviour	Ü-Z: Z- 156.605- 892

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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.