

MASTERTOP[®] 1221A

Aggregate based decorative seamless flooring system

Description

MASTERTOP[®] 1221A is a seamless floor system based upon advanced solvent-free clear epoxy resin incorporating graded coloured aggregates. MASTERTOP[®] 1221A is applied at thicknesses between 1.0-3.0mm and is available either smooth or profiled. The degree of slip resistance can be varied to suit differing service conditions and cleaning requirements.

Recommended for

MASTERTOP[®] 1221A is recommended for floors where a durable slip resistant surface, combined with a decorative aspect, is required and where mechanical abrasion and chemical spillage could be the cause of floor damage. It is ideal for floors in:

- Showrooms and shopping centres
- Food and beverage industry
- General production and packaging areas
- Industrial and commercial kitchens and catering facilities
- Wet processing and production areas
- Shower and changing room areas
- Office and commercial buildings
- Schools and hospitals
- Hotels

Features and benefits

Chemical, abrasion and impact resistant	Withstands chemical and mechanical attack. Lower maintenance cost.
Adjustable slip resistance	Safe working areas.
Impervious, seamless and jointless	Allows floor surface to be maintained in a hygienic state.
Decorative aspect	Ideal for use in commercial type areas
Wide colour range	Attractive floors. Pleasant working environment.

Packaging

MASTERTOP [®] 1200 Resin	12.4kg
MASTERTOP [®] Primer 2	15 kg
Aggregate (FILLER F11)	25 kg
MASTERTOP [®] 1200 Resin	12.4kg
MASTERTOP TC 407W	10 kg

*Typical properties (Full System)

Cured at 7 days @20°C	
Bond strength	Greater than cohesive strength of good quality concrete
Abrasion resistance (ASTM D4060, BS 812)	105mg
Abrasion resistance (DIN 53754)	23mg
Service temperature	-20 to 60°C
Application temperature (substrate)	Minimum 10°C Maximum 35°C



The Chemical Company

MASTERTOP[®] 1221A

Application

Surface preparation

The compressive strength of the substrate shall not be less than 20N/mm².

Correct substrate preparation is critical for optimum performance. Surfaces must be structurally sound, clean, and free from loose particles, oil, grease, and all other contaminants.

Remove oil, grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membrane and other contaminants must be removed from the surface by captive shot-blasting or grit-blasting followed by vacuum cleaning.

Fill surface irregularities such as blowholes, cracks, honeycombs, etc. with a MASTERTOP[®] Filler 2200 repair mortar to achieve a smooth and level surface.

Primer base coat

Prior to application MASTERTOP[®] 1221A should be stored under cover in an air-conditioned environment and protected from extremes of temperature which may cause inconsistent workability, finish and cure times for the mixed material.

Priming (if substrate is porous) - MASTERTOP[®] PRIMER 2.

Mixing:

Use a low speed (300 rpm) electric drill fitted with a suitable mixing head.

NB: MASTERTOP[®] PRIMER 2 may be diluted with 0.5 litres of SOLVENT NO. 2.

Base Coat Application:

Depending on the substrate condition, apply 0.15 to 0.20kg/m² of the mix.

Note: Seal coat essential to prevent air/moisture release from the substrate and to ensure that there is resin left on the substrate to encapsulate the aggregate.

Broadcast Aggregate Application

The base coat should then be left to settle for 10 minutes prior to broadcasting of the coloured quartz.

Decorative MASTERTOP[®] Filler F11 is broadcast to saturation onto the wet base coat. After overnight curing, remove excess aggregate with an industrial vacuum cleaner. Give the floor a light scraping with the edge of the trowel or a light sanding to remove rough spots and loosely bonded aggregate.

Sealer

Mixing:

Use a low speed (300-400 rpm) electric drill fitted with a suitable mixing head.

Mix one unit of MASTERTOP 1200 resin base with one unit of reactor and mix for at least 1 minute or until the mix is uniform and free of streaks.

MASTERTOP[®] 1221A

Placing:

Immediately after mixing, pour the material onto the applied aggregate. Spread the mixed material using a squeegee or roller. The amount of material applied determines the smoothness of the finish. Back roll with short hair mohair roller. Depending on the finish required additional roller applications of MASTERTOP[®] 1200 sealer coat may be required.

NB For a matt finish, use a further sealer coat of MASTERTOP[®] TC 407W at a coverage rate of 0.1-0.12kg/m².

Cleaning

Clean tools and equipment first with paper towels or rags, then wipe using a solvent such SOLVENT 2 before the resin system hardens.

Estimating data

For thickness 1 to 2.0mm

Stage	System	Product	kg/m ²
1	Primer	MASTERTOP [®] PRIMER 2	0.15-0.25
2	Basecoat	MASTERTOP [®] 1200	0.15-0.2
3	Broadcast Aggregate	MASTERTOP [®] Filler F11	1-2
4	Sealer	MASTERTOP [®] 1200	0.15-0.3
5	Matt Sealer *optional	MASTERTOP [®] TC 407W	0.1-0.12

*** For greater thickness the above procedure may be repeated (steps 2-4 only)**

Shelf life

All components of MASTERTOP[®] 1221A can be kept for 12 months from date of manufacture if stored in original unopened packaging, in a dry enclosed place without exposure to direct sunlight at temperatures between 15 to 35°C.

Precautions

MASTERTOP[®] 1221A contains certain chemicals which can cause skin irritation if exposed and respiratory reaction if inhaled. Wear gloves, masks and use hand barrier cream while handling the product. Wash thoroughly after handling.

Should skin contact occur, wash immediately with soap and water or an effective hand cleaner.

In case of accidental eye contact, wash with copious quantity of water and immediately seek medical advice. If ingested, do not induce vomiting. Consult doctor immediately.

Vapours of solvents used for cleaning can be irritating. It is therefore recommended that cleaning be done in well ventilated areas.

For detailed Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

Fire: Keep away from sources of ignition. Do not smoke whilst handling the product.

Flash point: 110°C.



The Chemical Company

MASTERTOP[®] 1221A

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

07/2004 BASF_CC-UAE revised 10/2009

* Properties listed are based on laboratory controlled tests.

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

BASF Construction Chemicals UAE LLC

P.O. Box 37127, Dubai, UAE

Tel: +971 4 8090800

Fax: +971 4 8851002

www.basf-cc.ae

