

MasterTop[®] 1221A

Aggregate based decorative, seamless, epoxy 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

Note:

Car parks - Recommended top coats when applied as a car park coating are

MasterTop 1200 - Neutral (epoxy) and **MasterSeal TC 257 - Neutral** (polyurethane).

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 P 650 | 15kg |
| MasterTop THN 2 | 19 litres |
| MasterTop 1200 | 12.4kg |
| MasterTop F11 | 25kg |
| MasterTop TC 417W Clear | 10kg |

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 |

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 membranes 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 **MasterTop 2200** repair mortar to achieve a smooth and level surface.

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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 P 650**.

Mixing:

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

NB: **MasterTop P 650** may be diluted with 0.5 litres of **MasterTop THN 2**.

BASE COAT APPLICATION

Depending on the substrate condition, apply **MasterTop 1200** at 0.15-0.20kg/m² of the mix.

Note: A seal coat is 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 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** base with one unit of reactor and mix for at least 1 minute or until the mix is uniform and free of streaks.

SEALER - 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 417W Clear** 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 **MasterTop THN 2** before the resin system hardens.

ESTIMATING DATA

For thickness 1.0-2.0mm

| Stage | System | Product | kg/m ² |
|-------|--------------------------|--------------------------------|-------------------|
| 1 | Primer | MasterTop P 650 | 0.15-0.25 |
| 2 | Basecoat | MasterTop 1200 | 0.15-0.20 |
| 3 | Broadcast Aggregate | MasterTop F11 | 1.0-2.0 |
| 4 | Sealer | MasterTop 1200 | 0.15-0.30 |
| 5 | Matt Sealer *optional | MasterTop TC 417W Clear | 0.10-0.12 |

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

For car park applications, please contact BASF Technical Services department.

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 15-35°C.

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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.

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 ISO 45001.

* Properties listed are based on laboratory controlled tests.

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NOTE

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