

MASTERTOP[®] 1250 EPOXY MOSIAC

Decorative Epoxy Mosaic Screed

Description

MASTERTOP[®] 1250 is a hardwearing multi-component decorative epoxy mosaic screed system designed to provide continuous protection for concrete floors. Applied by trowel in thicknesses of 5mm and above.

Primary uses

MASTERTOP[®] 1250 has excellent mechanical properties and offer superior abrasion and wear characteristics for areas subjected to heavy traffic.

MASTERTOP[®] 1250 has good general chemical resistance, but as in all corrosive situations a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data, to ensure product suitability.

MASTERTOP[®] 1250 is non-tainting and is suitable for application where foodstuffs are processed and stored.

MASTERTOP[®] 1250 is the ultimate combination of performance and aesthetics, as such is ideal for applications where durability and visual appearance are important.

MASTERTOP[®] 1250 may be applied in the following industries

NB This gives examples only and does not constitute a full and comprehensive list. For further information on application possibilities contact BASF Construction Chemicals UAE LLC.

- Industrial and commercial kitchens
- Food and beverage production and processing

- Canteens
- Bakeries and confectioners
- Schools and hospitals
- Shops and showrooms
- Changing rooms / showers
- Public Areas

Advantages

- High mechanical strength
- Impact and abrasion resistant
- Slip resistant
- Non tainting
- Excellent chemical resistance
- Decorative appearance
- Seamless

Product components

MASTERTOP[®] 1250 is supplied as a multi component system

Primer	MASTERTOP [®] 1250 Plus Primer	2.8kg
Screed	MASTERTOP [®] 1250 Plus Resin + Filler F3	27.8kg
Coving	MASTERTOP [®] 1250 Plus Resin + Filler F3 + Thixotrope	27.93kg
Sealer	MASTERTOP [®] 1250 Sealer (diluted 10% with water)	4 litre

Typical properties

Properties listed are only for guidance and are not a guarantee of performance

Mechanical properties: (cured 7 days at 20°C)	
Flexural strength (DIN 1048)	15N/mm ²
Bonding strength	Greater than cohesive strength of good quality concrete
Temperature resistance:	-20°C to +60°C
Minimum curing temperature	+10°C (temperature of air and substrate)



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Application procedure

Preparation:

MASTERTOP[®] 1250 must be applied to a clean, dry substrate free from dust, dirt, oil, grease and other contaminants. A clean well prepared surface will ensure adhesion between substrate and overlay.

New construction:

Floors to be coated or overlaid should be at least 28 days old unless water reducing admixtures have been incorporated. Consult BASF UAE's Technical Services Department for advice.

The removal of laitance and contaminants is best achieved by mechanical means such as vacuum recovery shot blasting or scarifying.

Existing concrete:

All contamination must be removed and a sound, clean substrate exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum.

In areas of deeply penetrating contamination by oils, greases and fats, hot compressed air, followed by impregnation with a low viscosity sealer / primer is the recommended treatment.

Uneven concrete should be levelled to produce a roughened flat surface. Where repairs are required they can be carried out using MASTERTOP[®] 1240 PLUS filled out with additional aggregate or, if time allows, a suitable product from the EMACO range.

Expansion, control and isolation joints in concrete substrates should be carried through

MASTERTOP[®] 1250 floors and filled with a suitable sealant from the BASF CC UAE range.

At all details where MASTERTOP[®] 1250 will terminate, for example, at expansion, control or movement joints, at doorways, channels or columns, the material must be given a mechanical bond to the substrate using tie chasers.

Prior to application MASTERTOP[®] 1250 should be stored under cover in air-conditioning and protected from extremes of temperature which may cause inconsistent workability, finish and cure times of the mixed material.

Priming:

Mix the base and reactor components together until streak free. Apply by brush or roller at the minimum rate of 0.2kg/m² to the prepared substrate. Primer consumption will vary according to substrate profile and porosity.

If the primer is readily absorbed by the concrete, the surface must be reprimed, to leave a surface with a wet or tacky glossy appearance at the time the MASTERTOP[®] 1250 screed mix is laid into the primer.

It may be preferable to pre-prime porous surfaces, allowing the first coat of primer to dry and seal the surface, before repriming again the next day. If this approach is taken, MASTERTOP[®] SRA Aggregate No. 3 should be sprinkled into the first sealer / prime coat to afford a key to prevent the MASTERTOP[®] 1250 sliding about when it is applied into the second primer coat.



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Mixing screed:

Mixing can be carried out using a forced action mixer or drill and spiral paddle.

Mix the base and reactor together until streak free. Pour the mixed material into the mixer, then with the mixer operating, add the aggregate. Continue mixing until all the aggregate is coated with resin.

Application:

Place the mixed MASTERTOP[®] 1250 onto the wet primer, between screed battens of the correct thickness, spread and level off using an aluminium straight edge. Compact and finish the surface using a steel float. Allow to cure.

Coving and skirting:

Mix the MASTERTOP[®] 1250 resin with the thixotropic agent, then add the 25kg bags of aggregate and mix for 3 minutes.

Apply the coving into wet or tacky primer.

Topcoat:

The surface of MASTERTOP[®] 1250 must be sealed using MASTERTOP[®] 1250 Sealer diluted with 10% water.

When the surface is hard enough to walk on, remove protruding aggregates from the finished surface, prior to applying the sealer / top coat.

Mix the base and reactor and the 10% water using a paint mixing head fitted to a drill. Mix to a uniform consistency and colour.

Apply using a short pile roller to make the surface uniform. Allow to cure.

Coverage

The following MASTERTOP[®] 1250 Sealer.

Priming:

Minimum 0.2kg/m²

Overlay:

MASTERTOP[®] 1250 systems

Laid at 5mm 27.8kg pack covers 2.9m².

Yield

27.8kg = 14.63 litres

Top coat:

8m²-10m² per litre applied in one coat.

All calculated usages assume constant thickness on a regular substrate. Failure to achieve the required surface regularity will lead to additional material being used.

Equipment care

Remove uncured MASTERTOP[®] 1250 using SOLVENT NO. 2.

Storage

Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction and protect from extremes of temperatures.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult BASF UAE's Technical Services Department.



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Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product is fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use.

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.

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

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