

MASTERTOP[®] 1110 FLAKE

Epoxy resin & PVA Flake based wall coating for concrete and masonry surfaces

Description

MASTERTOP[®] 1110 FLAKE is a decorative water-dispersible epoxy resin coating system, designed to seal and protect concrete walls and structures.

Primary uses

MASTERTOP[®] 1110 FLAKE offers good protection for concrete surfaces and provides an easily cleaned, non dusting finish in industrial and commercial applications. The system is free of organic solvents and will not taint foodstuffs.

MASTERTOP[®] 1110 FLAKE offers good resistance to a wide range of chemicals and aggressive liquids and gases, 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[®] 1110 FLAKE may be used in the following application areas as a decorative wall sealing coat and wearing surface.

- Car Park walls, columns and stair wells
- Food processing and manufacturing plants
- Warehousing
- Soft drink and beverage production
- Retail and vehicle showrooms
- Bakeries
- Wash and changing room walls
- Pharmaceutical factories
- Industrial and commercial kitchens

Advantages

- Decorative
- Economical
- Easy application
- Solvent free, non tainting
- Easily cleaned
- Impervious to gas and liquid penetration
- Ease of maintenance
- Good bond to dense surfaces

Packaging

MASTERTOP[®] 1110 FLAKE Resin is supplied in a 4 litre unit, the flake is supplied in 1kg/20kg units.

*Typical properties

| | |
|---|--------------------------|
| Pot Life: 25°C | 1 hour |
| 40°C | 40 minutes |
| Specific gravity: (varies with colour) | 1.36 g/cm ³ |
| Max. service temperature: | 60°C |
| Min. recoat time: | 10 hours. at 25°C |
| Max. recoat time: | 48 hours. at 25°C |
| Dry film thickness (resin only): | 75 –100 microns per coat |

Hygiene

From all available information it has been found that MASTERTOP[®] 1110 FLAKE shows a minimal risk of tainting foodstuffs during and after complete cure has taken place.



The Chemical Company

MASTERTOP[®] 1110 FLAKE

Application procedure

Preparation:

MASTERTOP[®] 1110 FLAKE must be applied to a clean, dry and prepared substrate free from dust, dirt, oil, grease and other contaminants. A clean surface will ensure improved adhesion between substrate and coating.

The method of surface preparation will be dictated by the size of area to be treated, location and degree of contamination.

New construction:

Substrates to be coated or overlaid should be at least 28 days old unless water-reducing admixtures have been incorporated. (Consult BASF's Technical Services Department for advice). The removal of laitance and contaminants is best achieved by mechanical means such as vacuum recovery shot blasting.

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, treatment followed by impregnation with a low viscosity sealer / primer is the recommended treatment.

Prior to application, MASTERTOP[®] 1110 FLAKE should be stored under cover and protected from extremes of temperature which will cause inconsistent workability and cure times of the mixed material. During application in cold conditions, correct conditioning is essential, but

application should be halted if the substrate temperature is likely to fall below 10°C.

Mixing:

MASTERTOP[®] 1110 FLAKE Resin is a two component product consisting of base and reactor components. The base component should be mixed before use to redistribute any settlement that may have occurred during storage.

To the pre-mixed base add the complete contents of the reactor container. Using a slow speed drill with a suitable mixing attachment, mix for 1-2 minutes until a uniform streak free consistency is achieved. MASTERTOP[®] 1110 FLAKE Resin is supplied in preweighed units; at no time should packs / units be split.

Priming:

Substrates should be primed using MASTERTOP[®] 1110 FLAKE Base Coat diluted with up to 10% by volume of water per 4 litre pack. Coverage will be approximately 8-10m² / litre / coat.

Mixing should be as described above. Application should be by short haired roller or airless spray.

Base Coat application:

Apply 2nd coat of MASTERTOP[®] 1110 FLAKE Base Coat at 5-8m² / litre / coat.

Note: Colour of resin base coat to be as the dominant flake colour.

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Flake application:

Whilst the resin base coat is wet, blow on 0.3-0.5kg/m² of MASTERTOP[®] Flake and allow to cure for around 10-12 hours. Once cured, lightly abrade the surface to remove any loose flake.

Top Coat application:

Apply 2 coats of MASTERTOP[®] 1110 FLAKE Top Coat at 5-8m²/coat and allow at least 6-8 hours but no more than 48 hours between coats.

Apply the second coat at right angles to the first. Coverage will vary according to the nature of the substrate.

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

Colours

MASTERTOP[®] 1110 FLAKE is available in a range of standard colours – grey, red, green, blue, beige, black and white. Flake blends are available to the customers choice.

Storage

Store under cover out of direct sunlight and protect from extremes of temperature.

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

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 skin and eyes immediately. If accidentally ingested, seek medical attention. Reseal containers after use. For further information refer to the material safety data sheet.

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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* Properties listed are based on laboratory controlled tests.

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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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