

MasterProtect[®] 2020 (Formerly known as Concrecive 2100)

High strength, non-flow epoxy bedding and repair mortar

DESCRIPTION OF PRODUCT

MasterProtect 2020 is a non-slumping epoxy bedding compound and adhesive. It is a three-pack, fine aggregate filled, fast curing material ideal for a variety of bedding, gap filling and concrete repair applications.

MasterProtect 2020 is a stiff, but easily workable, compound that can be applied by either trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, greases, petroleum, salts, many acids and alkalis and most commonly met corrosive media. It does not shrink on curing, and is designed to be used when cured from below freezing point to 60°C. Its impact resistance and mechanical strength are greater than those of concrete.

PRIMARY USES

- For surface repairs of fine cracks and spalls
- For gap filling, grouting, bedding fixtures, etc.
- For repairs to arrises without the use of form work
- Wherever a thixotropic epoxy mortar is required

TYPICAL APPLICATIONS

- Bedding bridge beams or steel bridge bearings
- Repairing surface defects or to honeycombing concrete in horizontal, vertical or overhead situations
- Fixing slip bricks to concrete
- Securing bolts into walls
- Dowel bars anchoring
- As a gap filling adhesive
- Filling bolt pockets
- Bedding tiles
- Repairing concrete posts in-situ
- Fixing of surface ports for crack injection

ADVANTAGES

- High strength
- Non-slump
- Strong adhesion
- Impact resistant
- Chemical resistant
- Non-shrink
- Epoxy based
- Trowels to a smooth finish
- Easy to use
- Supplied in pre-weighed units
- No bonding agent or primer required
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PACKAGING

MasterProtect 2020 is available in 10kg units.

COMPOSITION

Three-component epoxy-based mortar filled with selected fine aggregate.

TYPICAL PROPERTIES

Colour:	Grey
Mixed density:	2200kg/m ³ at 25°C
Flashpoint:	N/A
Compressive strength to ASTM D695:	75N/mm ² at 7 days
Bond strength:	Greater than that of the concrete
Pot life:	At 20°C : 40 minutes
Tack free time:	At 20°C : 7 hours
Full cure:	At 25°C : 5 days

STANDARDS

ASTM C881 : Type 1, Grade 3 Classes B and C

CHEMICAL RESISTANCE

MasterProtect 2020 has excellent resistance to the following: most aqueous systems; sewage; urine; fresh water; seawater; diluted and concentrated alkalis; diluted acids; mineral; vegetable and animal oils and fats; ammonia and formaldehyde.

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APPLICATION PROCEDURE PREPARATION:

All loose particles, laitance, dust, grease, etc. must be removed prior to application of **MasterProtect 2020**.

MIXING:

The 10kg pack has been designed to be readily mixed by trowel. Where more than one pack is to be mixed at a time, a Mixal portable mixer (HD5 model) is suitable.

APPLICATION:

Knife or trowel **MasterProtect 2020** to the required level, using the minimum of solvent on the trowel to aid workability. The surface may be finished smooth by use of a paint brush dipped in solvent.

Where a very deep recess is to be filled, it may be necessary to build up in layers. Repairs may be camouflaged, if required, by covering surface with cement powder before full cure is affected.

WORKING TEMPERATURE :

MasterProtect 2020 will cure at temperatures as low as 0°C, although at low temperatures cure is retarded.

COVERAGE

15kg is sufficient to cover approximately 1.4m² at 5mm thickness.

EQUIPMENT CARE

Clean with solvent, immediately after use.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in an air-conditioned environment.

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

SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

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 immediate medical attention. Keep away from children and animals. Re-seal 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 STATEMENT

All products manufactured by BASF Egypt, or imported from BASF affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007 standards.

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website: www.master-builders-solutions.basf.com.eg

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