

MASTERKURE[®] 161

Bitumen based compound for the curing and protection of concrete

Description

MASTERKURE[®] 161 is a bitumen based, membrane-forming solution, suitable for spray application to freshly poured concrete.

The resultant film retains sufficient moisture in the concrete to ensure full hydration of the cement; essential for optimum strength development. Additionally, the cured film forms a damp and vapour proof membrane, sufficient to provide a barrier to waterborne salts.

Primary uses

As a more effective and economical alternative to separate curing and concrete protection operations. Suitable for use on all concrete surfaces.

- Foundation protection.
- As a damp proof membrane.
- Primer for preformed waterproofing membranes.

Advantages

- Versatile multi-role product.
- Immediate protection from chloride ion ingress.
- Effective barrier to CO₂ diffusion.
- Economical and labour saving.

Packaging

MASTERKURE[®] 161 is available in 200 litre drums.

Standards

ASTM C 309 Type 1 Class B

Typical properties

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

Appearance:	Black liquid
Specific gravity:	0.88 at 25°C
Flashpoint:	39°C
Finished film appearance:	tack free, brown / black film
Curing efficiency ASTM C 309:	Pass
Tack free time:	3 hours 30 minutes @25°C

Application procedure

MASTERKURE[®] 161 should be applied by spray, roller, squeegee or brush. For green concrete MASTERKURE[®] 161 should be spray applied as evenly as possible to the freshly placed concrete. Dependent on spray equipment up to 10% white spirit can be added to facilitate spraying.

For horizontal surfaces the MASTERKURE[®] 161 should be applied as soon as the initial surface sheen has disappeared from the concrete face. In the case of formed concrete, the MASTERKURE[®] 161 should be applied immediately on removal of the formwork.

Apply a second coat of MASTERKURE[®] 161 allowing 12 to 24 hours between coats.

When used for damp proofing floors apply a second coat at right angles to the first and whilst still tacky lightly grit the whole area to form a key. The concrete screed can be laid after 24 hours and should be greater than 50mm in thickness.

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Coverage

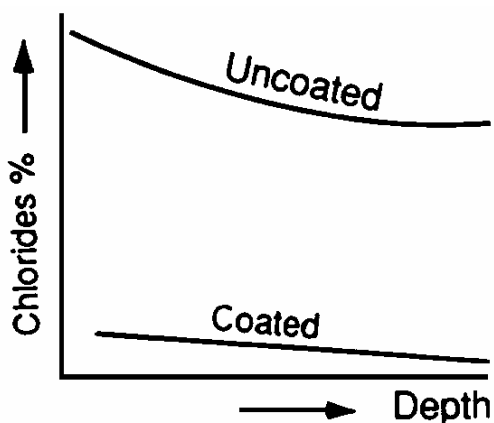
The recommended rate of application is 5-6m²/litre. This corresponds to that at which MASTERKURE[®] 161 has been tested, and at which it attains the claimed degree of curing efficiency.

Composition

MASTERKURE[®] 161 is manufactured from a blend of pure bitumens and asphalt, modified with selected polymers dissolved in fast drying solvents which evaporate quickly to leave a continuous film, recoatable after 24 hours.

Chloride ion ingress

The ingress of chlorides into concrete during curing will accelerate the process of reinforcement corrosion. MASTERKURE[®] 161 offers excellent resistance to chloride ion ingress and protects concrete at its most vulnerable time. The graph below details results from independent tests which highlight MASTERKURE[®] 161's performance.



Specification clause

MASTERKURE[®] 161

All below grade concrete requiring protection from groundwater should be cured utilising MASTERKURE[®] 161, an asphalt based concrete curing/foundation protection compound manufactured by BASF, or similarly approved, to the following specification:

Compliance to specification type:

ASTM C309 Type 1, Class B

Composition: Blend of pure bitumen, asphalt and selected polymers dissolved in quick drying solvent.

MASTERKURE[®] 161 should be applied to the concrete at a coverage rate of 5-6m² per litre strictly in accordance with the manufacturer's instructions.

Storage

Store under cover, out of direct sunlight between 5 and 45°C.

Shelf life is up to 12 months, in unopened containers when stored as above.

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.



The Chemical Company

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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. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation. For further information refer to the material safety data sheet.

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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