



The Chemical Company

MASTERKURE® 260 – KURE N HARDEN

Hardening, sealing and dustproofing compound

DESCRIPTION

MASTERKURE 260 is a non-coloured, water soluble inorganic and silicate based curing, hardening, sealing and dustproofing compound. It is used for freshly placed and finished concrete and in renovation of aged concrete. It contains no VOCs.

FIELDS OF APPLICATION

MASTERKURE 260 is recommended for the following application :

- Concrete floors and pavements
- Curing of fresh concrete
- Renovation of aged concrete
- Industrial, processing and brewing plants
- Educational, medical and nursing facilities
- Utility, public and residential buildings

FEATURES AND BENEFITS

Projects floors during construction	Cost efficient
Easy application, quick drying	Saves on laboUr; minimises downtime.
Water based	Has no VOCs, environmentally friendly, easy to clean up.
Aid for curing new concrete	Minimises shrinkage cracking; improves strength development.
Concrete hardener	Withstands light to moderately heavy duty traffic.
Improved abrasion resistance	Extends wearability.

TYPICAL PERFORMANCE DATA

Compressive strength , psi (MPa) ASTM C 109, modified	Untreated : 5,000 (34.5) MASTERKURE 260 treated* : 6,000 (41.4) 20% increase in compressive strength at 3 days over untreated samples
Comparative abrasion resistance , g loss 1,000 g load; 1,000 revolutions Taber Abraser CS-17 Wheel	Untreated sample : 8 (100%) MASTERKURE 260 treated* : 6 (78%) 20% increase in abrasion resistance over untreated samples

Moisture retention, g loss

ASTM C156

1,000 g load; 1,000 revolutions

Untreated sample : 90

MASTERKURE 260 treated* : 63

30% improvement in moisture retention

* Application to fresh mortar. Abrasion resistance measured at 7 days, 23°C and 50% relative humidity.

Test Results are averages obtained under laboratory conditions. Reasonable variations can be expected.

APPLICATION

Surface preparation

New Concrete

Freshly finished concrete surfaces do not require surface preparation if **MASTERKURE 260** is to be applied immediately after the final finishing operation in place of a resin or acrylic curing compound.

On areas where forms have been recently removed, all form oil or breaking compound residue must be removed.

Existing Concrete (Cured for 28 days or more)

Install joint sealants before application of **MASTERKURE 260**. If not possible, test first for adhesion.

To remove all dust and dirt, sweep all areas to be treated with a fine-bristled broom or hose off with water and let stand until completely dry.

The surface must be free from all contaminates that will inhibit the penetration of **MASTERKURE 260** into the pores of the concrete.

Any curing, scaling or coating agents must be chemically or mechanically removed before **MASTERKURE 260** is applied. If acid is used to remove surface coatings, the surface must be flushed sufficiently and neutralized before application of **MASTERKURE 260**. A floor buffing machine with an aggressive pad can be used along with Citrus Degreaser (see Form No. 1017985) or other cleaners to remove existing compounds.

Protect metal, glass, wood, paint and brick from contact with **MASTERKURE 260**. If accidentally misapplied to these surfaces, wash with clean water within 30 minutes.

Application

MASTERKURE 260 is not a film forming product but should fully saturate the concrete for maximum effect. Perform enough applications for **MASTERKURE 260** to saturate the concrete.

New Concrete

Spray apply undiluted **MASTERKURE 260** on the concrete surface with a low pressure sprayer following

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final finishing operation and after all surface water has evaporated and the concrete surface is hard. To ensure proper performance apply **MASTERKURE 260** to entire surface area as soon as the surface can bear foot traffic. Keep entire surface wet for 30 minutes by spraying **MASTERKURE 260** or by broom sweeping away the excess material from low spots to saturate dry spots. Failure to remove all excess material from floor surfaces may result in unsightly white stains. Keep **MASTERKURE 260** from drying out on surface for a full 30 minutes to ensure full penetration.

As **MASTERKURE 260** begins to penetrate into the surface, lightly sprinkle the surface with water to aid penetration.

When **MASTERKURE 260** begins to dry a second time, flush the surfaces with water and squeegee the surface to remove any excess material and other impurities that were brought to the surface.

On exterior applications, environmental factors, such as wind and heat may greatly reduce the effectiveness of **MASTERKURE 260** as a curing aid.

To improve sheen, dry buff with a non aggressive pad the following day.

If applications with pozzolanic additives in the concrete, additional **MASTERKURE 260** is required.

Existing Concrete (28 days or more)

Saturate the surface with undiluted **MASTERKURE 260** by sprayer, squeegee, or broom.

If dry spots appear, move excess material onto them or respray them immediately so that the entire surface is wet with **MASTERKURE 260** for a minimum of 30 minutes.

Complete job using one of the following finishing options:

- If after 30 to 40 minutes, the majority of **MASTERKURE 260** has been absorbed into the surface, use broom or squeegee to remove any excess material from the low spots
- Use a floor buffing machine with a non aggressive pad to help work **MASTERKURE 260** into fully cured concrete during application.

Application method and concrete porosity will affect final appearance of **MASTERKURE 260**. White residue signifies too strong a mix or the surfaces reaching maximum hardness. Applications should stop and the surface be flushed with clean hot water, swept with stiff-bristled broom and allowed to dry. If any applications

remain, a dilution may be required to avoid further problems.

Note: Allow at least 7 days interval before applying tile or floor covering adhesives over **MASTERKURE 260**.

CLEANING

Clean the tools and equipment first with clean water immediately after use.

ESTIMATING DATA

MASTERKURE 260 is applied generally at coverage of 3.68 – 4.9 m²/L.

Coverage may vary with application method, surface conditions and porosity.

PACKAGING

MASTERKURE 260 is available in 18.93L pails or 205L drums.

SHELF LIFE

The shelf life of **MASTERKURE 260** is 12 months in unopened original containers if stored in a cool place at temperature between 3 – 25°C in original tightly sealed containers.

If found to be frozen, thaw it and reconstitute by stirring. However, if separation persists, discard **MASTERKURE 260**. Do not apply.

PRECAUTIONS

Health: MASTERKURE 260 contains certain chemicals which can cause severe skin and eye irritation or burns. **KEEP OUT OF THE REACH OF CHILDREN.**

Use only with adequate ventilation. Use impervious gloves, eye protection and authority approved respiratory protection if used in a poorly ventilated area. Do not breathe vapours.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

2-1-3-0308

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

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