

MASTERKURE® N-Seal

Curing and sealing compound for concrete

DESCRIPTION:

MASTERKURE® N-Seal curing and sealing compound is a modified acrylic-based liquid polymer product for new or existing concrete surfaces. It can be applied vertically or horizontally, indoors or outdoors, to smooth or textured concrete. MASTERKURE N-Seal curing and sealing compound is recommended for use on concrete floors as classified in ACI Guide 302.1R, Table 2.1.

When a second coat is applied, the material can offer some concrete sealing characteristics.

RECOMMENDED FOR:

- Curing freshly placed and finished concrete floors as classified in ACI Guide 302.1R, Table 2.1
- Use as an economical protective sealer for concrete, precast, paving stones, exposed aggregates and terrazzo
- Use when removal of curing compound is not desired or required

FEATURES/BENEFITS:

- Proper curing of concrete ensures increased durability
- Enhances the concrete surface with a light patina coating
- Reduces surface absorption of concrete
- Designed to make surfaces easier to clean and maintain
- Complies with ASTM C 309, Type 1, Class A and Class B
- Complies with AASHTO M-148
- Complies with Corps of Engineers CRD C 304, Type 1, Class A and Class B

PACKAGING:

MASTERKURE N-Seal curing and sealing compound is packaged in 5 gallon (18.9 liter) pails, and 55 gallon (208 liter) drums.

SHELF LIFE:

Shelf life is approximately one year if stored in original, unopened containers and stored between 40 to 85 °F (4.4 to 29.4 °C).

ESTIMATING:

First Coat

One gallon will cover approximately 200 to 400 ft² (4.9 to 9.8 m²/liter), depending on texture and porosity of surface.

Second Coat

One gallon will cover approximately 400 to 600 ft² (9.8 to 14.7 m²/liter), depending on texture and porosity of surface.

PERFORMANCE DATA¹:

(Field Properties May Vary)

Volatile Organic Compounds 5.96 lb/gal (714.9 kg/L)

Flash Point 107 °F (41 °C)
(Setaflash Closed Cup)

Color Amber

¹ Properties are typical and descriptive of the product and may be used as a guide for determining suitability of particular applications.

INSTALLATION:

Read and understand data sheet and installation instructions completely before beginning installation.

Surface Preparation

Freshly placed concrete surface must be properly finished. First coat should be applied uniformly as soon as possible after final finishing. Surface is application ready when damp but not wet, and can no longer be marred by foot traffic.

Existing concrete surface should be thoroughly repaired and cleaned prior to application. Surface must be clean, dry, and free of loose materials, oil, grease, sealers, and all other surface contaminants that may inhibit proper bond of material.

Application

Thoroughly mix material in original container prior to application.

Apply material to form a continuous, uniform film by sprayer, roller, or other approved application equipment.

For sealing new or existing concrete, two coats are required.

Drying Time

Drying time is approximately 2 hours at 70 °F (21 °C), with relative humidity at 50%. Material will take longer to dry at either higher humidity and/or lower temperatures.

Based upon temperatures of 65 to 85 °F (18 to 29 °C):

- Light foot traffic, or between coats: 4 hours
- Normal traffic: Overnight
- Maximum hardness: 7 days

Clean Up

Clean tools immediately after use with Xylene.

LIMITATIONS:

- For professional use only. Not intended for sale or use by the general public.
- Keep away from heat, flame or sources of ignition.
- Heating Ventilation Air Conditioning (HVAC) units may draw solvent vapors into occupied building interiors. Solvent vapors can be irritating to those unaccustomed to the odor. Do not apply in or around buildings occupied by nonconstruction personnel without consulting building management. Use only with a minimum of 6 air changes per hour.
- Not intended for surfaces to receive concrete overlays or additional toppings, coatings, or sealers.
- Not recommended as a release agent.
- Do not use in areas that require resistance to solvents such as gasoline, diesel fuel, or paint thinners.
- If material is to be applied in or near areas containing foodstuffs, they should be removed before application and until material has fully dried and all solvent vapors have dissipated.
- Do not apply to the interfacing of channels to be caulked with elastomeric sealants. Mask channels to avoid sealant adhesion problems.
- Can be applied to natural or colored concrete, but mottling or ambering may occur.
- May rubber burn (tire marks) when subjected to fork lift or other wheeled traffic.
- May highlight features and imperfections of the concrete surface.

SAFETY PRECAUTIONS:

MASTERKURE N-Seal curing and sealing compound contains mineral spirits, naphtha-light aromatic, xylene, 1,2,4 trimethyl benzene.

Risks

Combustible liquid and vapor. May cause skin, eye or respiratory irritation. May cause dermatitis and allergic responses. Inhalation of vapors may cause irritation and intoxication with headaches, dizziness and nausea. Ingestion may cause irritation. May be absorbed through skin. Repeated or prolonged exposure increases the risk of absorption. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

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Precautions

READ MATERIAL SAFETY DATA SHEETS (MSDS) AND TECHNICAL DATA GUIDE BEFORE USING. DO NOT USE UNTIL ALL BYSTANDERS HAVE BEEN WARNED OF PRODUCT HAZARDS. KEEP AWAY FROM HEAT, FLAME AND SOURCES OF IGNITION. KEEP OUT OF THE REACH OF CHILDREN. Vapors are heavier than air. DO NOT cut or weld on or near empty container. Empty container may contain explosive vapors or hazardous residues. Keep container closed. Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Wash thoroughly after handling. DO NOT breathe vapors. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeding or product is used in poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations. All label warnings must be observed until container is commercially cleaned or reconditioned.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists, or any breathing difficulty occurs, or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheets (MSDS) for further information.

Proposition 65

This product does not knowingly contain materials as listed by the State of California as known to cause cancer or birth defects or other reproductive harm.

Volatile Organic Compound (VOC) Content

5.96 lb/gal (714 g/L) less water and exempt solvents.

**For medical emergencies only,
call ChemTrec: (800) 424-9300.**

RELATED BULLETINS:

MSDS - MASTERKURE N-Seal compound

For additional information, contact your local Master Builders representative.