

KURE-N-SEAL™

Waterborne transparent acrylic curing, sealing, and dustproofing compound

PRODUCT DATA

3 03390

**Concrete
Curing**

Description

Kure-N-Seal™ is a transparent, sprayable, acrylic-based polymer solution that cures, seals, and dustproofs freshly placed or aged concrete in a single operation. It complies with ASTM C 309.

Yield

Ft²/gallon per coat (m²/L)

Curing only:

200 – 400 (4.9 – 9.8)

Second coat (dustproofing and sealing):

400 – 600 (9.8 – 14.7)

Renovating, dustproofing, and sealing:

200 – 300 (4.9 – 7.4)

Under mastic-type floor adhesives:

400 – 600 (9.8 – 14.7)

Coverage varies with application method, texture, and porosity of surface. For curing only, 1 coat may be sufficient; 2 coats, however, will give best results. To seal and dustproof, 2 coats are required.

Packaging

Kure-N-Seal™:

5 gallon (18.93 L) pails

55 gallon (208 L) drums

Fugitive red dye:

1 pint (0.47 L) containers; use

1 pt/55 gallon drum (0.47 L/208 L

drum) and 1.5 oz/5 gallon pail

(44 ml/18.93 L pail).

Features

- Curing compound
- Sealer
- Dustproof
- Abrasion resistant
- Reduced fluid penetration
- Compatible with a variety of adhesives
- Available with fugitive red dye
- Waterborne
- VOC compliant

Color

Milky white; dries clear

White and gray color packs are also available. Add at the rate of 1 qt/5 gal pail (0.95 L/18.93 L pail). Mix thoroughly.

Shelf Life

1 year when properly stored

Storage

Store in unopened containers in cool, clean, dry area. Protect from freezing. Do not below 35° F.

Benefits

- Efficiently retains moisture for freshly placed concrete; ensures proper strength development; minimizes shrinkage cracking
- Makes surfaces easier to clean and maintain
- Provides extended wear
- Withstands pedestrian traffic
- Increases stain resistance of concrete
- Can be tiled or carpeted over
- Helps ensure even coverage
- Easy to use; cleans up with water
- Meets EPA regulations; environmentally responsible

Where to Use

APPLICATION

- Floors and walls
- Schools
- Apartments
- Offices

LOCATION

- Interior and exterior

SUBSTRATE

- Freshly placed and finished concrete
- Aged concrete and masonry
- Brick floors
- Terrazzo

Technical Data

Composition

Kure-N-Seal™ is an acrylic polymer in a co-solvent emulsion.

Compliances

- Recommended for use on concrete floors as classified in Table 1.1, ACI Standard 302
- ASTM C 309, Type 1, Class A and B (Type 1D with Fugitive Dye); meets Type 2 with white color pack
- Resilient Tile Institute
- AASHTO M-148
- Corps of Engineers CRD-C-304, Type I (or ID), Class A and B
- USDA compliant for use in meat and poultry areas

Typical properties

PROPERTY	VALUE
Solids content, % by weight	18

Test Data

PROPERTY	RESULTS	TEST METHODS
Comparative abrasion resistance, mg lost		Taber Abraser CS-17 Wheel 1,000 g load, 1,000 revolutions
Bare concrete	524	
Kure-N-Seal™ treated	120	
Moisture retention, kg/m² applied at 200 ft ² /gal)		ASTM C 156
Kure-N-Seal™	0.38	
Test requirement	< 0.55	

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

How to Apply

Surface Preparation

NEWLY PLACED CONCRETE

1. Surface must be sound and properly finished.
2. Surface is application ready when damp but not wet, and it can no longer be marred by foot traffic.

NEWLY CURED BARE CONCRETE

1. Level any spots gouged out by trades.
2. Remove all dirt, dust, oil, grease, asphalt, and foreign matter. Clean with caustics and detergents as required.
3. Rinse thoroughly and allow to dry so that surface is no more than damp and never wet.

AGED CONCRETE

1. Restore to surface soundness by patching, grouting, and filling cracks and holes.
2. Use power tools or strippers to remove any incompatible sealers or coatings.
3. Clean as required, following procedures listed above under "Newly cured bare concrete."

Application

1. Stir Kure-N-Seal™ thoroughly before using.
2. Apply to form a continuous, uniform film by spray, short-nap roller, or lamb's wool applicator. For best results, use a Hudson® Industro® or equivalent canister curing compound sprayer. Use tip number 8004 or equivalent for water-based or waterborne products.
3. For curing, only 1 application is necessary. Apply evenly and uniformly as soon as possible after final finishing.

NOTE: Two coats are required under hot and windy weather conditions.

4. To seal and dustproof, 2 coats are required. Apply the second application when all trades are completed and site is ready for occupancy.
5. Kure-N-Seal™ applied at 40 to 50 ° F (4 to 10° C) may retain a white appearance for extended periods depending on temperature variations. This condition is temporary. Warmer temperatures will allow the material to dry and clear.

Note: Do not over-apply or soak concrete surfaces with the curing compound. Do not allow the curing compound to pool or puddle on the surface. Over-application can result in "alligatoring" and "mud cracking," whereby film formation on the surface occurs prior to proper drying of the material on the substrate interface. Over-application may also induce opacity, as curing compound elements may become trapped in the subsurface and cannot escape.

Drying Time

Drying times assume 65 to 85° F (18 to 29° C) and 50% relative humidity. Lower temperatures will lengthen and higher temperatures will shorten the drying times.

Cool temperatures or humid conditions will affect drying times.

Light foot traffic or between coats: 4 hours

Normal traffic: overnight

Maximum hardness: 7 days

Clean Up

Clean tools immediately after use with soap and warm water.

Maintenance

1. Routine sweeping and washing of floors with conventional cleaners and detergents is recommended for maximum life expectancy.
2. Remove all abrasive grit and wipe up corrosive spills as soon as possible.
3. Inspect application periodically for wear or breaks and gouges in the surface.
4. Reapply Kure-N-Seal™ to obtain original gloss and protection.

For Best Performance

- Keep from freezing.
- Keep away from heat and open flame.
- DO NOT apply when concrete surfaces or ambient temperatures are below 40° F (4° C). For these conditions refer to Kure-N-Seal™ 25 (see Form No. 1017939) or Kure-N-Seal™ 30 (see Form No. 1017975).
- Application not recommended when surface temperature exceeds 120° F (49° C).
- For best appearance and performance apply uniformly and at recommended coverage rates.
- If Kure-N-Seal™ is to be applied in or near areas containing foodstuffs, they should be removed before application.
- The small amount of solvent vapors released by Kure-N-Seal™ may be objectionable to people unaccustomed to the odor; do not apply Kure-N-Seal™ in or around buildings occupied by nonconstruction personnel without consulting building management.
- Do not apply to joint faces to be caulked with elastomeric sealants; protect joint faces by masking.
- Not intended for surfaces to receive concrete overlays or additional toppings, coatings, sealers, or ceramic tile (without proper surface preparation).
- Not recommended as a release agent.
- Do not subject to rain or water until Kure-N-Seal™ dries hard.
- The red hue in fugitive red dye will dissipate upon exposure to UV light.
- Although Kure-N-Seal™ is compatible with a variety of carpet, vinyl tile, and floor covering adhesives, always conduct a test application beforehand.

- Extended exposure to moisture may result in temporary opaque condition that clears upon drying.
- Kure-N-Seal™ will highlight imperfections and may darken the final appearance of the concrete surface.
- Kure-N-Seal™ can be applied to colored concrete or dry-shake hardeners, but mottling may occur.
- Kure-N-Seal™ is considered a light-duty floor sealer; may rubber burn when subjected to forklift or other wheeled traffic.
- Kure-N-Seal™ 30 or Kure 1315 should be applied when a high gloss is desirable or required.
- Mechanical methods are recommended for removing Kure-N-Seal™.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by Degussa personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

KURE-N-SEAL™

Caution

Kure-N-Seal™ contains naphtha-light aromatic and 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 of mouth, throat and stomach with nausea and abdominal pain. 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.

Precautions

READ 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 exceeded or product is used in a 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 Sheet (MSDS) for further information.

Proposition 65

This product contains materials listed by the state of California as known to cause cancer and birth defects or other reproductive harm.

VOC Content

2.59 lbs/gal or 311 g/L, less water and exempt solvents.

**For medical emergencies only,
call ChemTrec (1-800-424-9300).**

Degussa Building Systems

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