



**DESCRIPTION**

Nexus 100 is a reactive, two-component, moisture mitigation coating to stop moisture and vapor emissions on existing concrete. Nexus 100 has minimal odor and does not contain solvents. Nexus 100 reduces moisture vapor emission rate of 25 pounds to less than 3 pounds per the ASTM F1869 Calcium Chloride Test. Nexus 100 reduces moisture vapor permeability from 8.6 Perms to less than 0.1 Perms per ASTM E96 Wet Method Test and meets the ASTM F3010 test requirements.

Nexus 100 is formulated in the following versions:

- #1. **Rapid Cure** curing in less than one hour
- #2. **Fast Cure** curing in four hours
- #3. **Standard Cure** curing in 16 hours

**ADVANTAGES**

- ❖ Zero VOC
- ❖ Adjustable curing times
- ❖ Superior bonding
- ❖ Fast installation of floor covering
- ❖ Can be used in adverse weather conditions
- ❖ Can cure as low as 40OF (4.4OC)
- ❖ Reduces MVER from 25 lbs. to below 3 lbs.
- ❖ Solvent free
- ❖ Can be used as primer for coatings
- ❖ Non-blushing
- ❖ Does not contain Silicone
- ❖ Low Viscosity
- ❖ Install flooring in 6 to 26 hours
- ❖ CaC12 less than 1 lb.

**APPLICATIONS**

Nexus 100 is a topical moisture and vapor remediation coating over any concrete substrate. Nexus 100 can be used over new concrete as a primer for reducing surface pH.

**TECHNICAL**

Component A: Color: Colorless  
 Component B: Color: Yellow to Amber  
 Mixed Color: Straw to Pale Yellow  
 Mixed Viscosity: 800 to 1300 + or - cps  
 MVER Calcium Chloride: 24.6# to 2.2# in 1 day (ASTM F1869)\* 24.6# to 1.1# in 3 days  
 \*Standard Cure Version  
 WVT Perm Testing: 0.06 Perms (ASTM E96)

ASTM	METHOD	RESULTS
F1869	Calcium Chloride @ 100 sq.ft./gal	0.11 pounds/1000 ft2/24 hrs.
D4541	Tensile Adhesion to Concrete	390 psi @100 sq.ft./gal
E96	Vapor Permeability	0.06 Perms

**LIMITATIONS**

Do not install if air or substrate temperature is below 40OF (4.4OC) or above 95OF (35OC). Concrete should be at least 5 days old for installation. If concrete is less than 5 days old, call for technical installation instructions. Do not install if concrete slab has excessive wetness or ponding water.

Shelf Life: 6 Months

Storage: Store between 40OF and 80OF (5OC and 25OC) to prevent clouding and crystallization. Do not allow to freeze.

**PACKAGING**

Rapid cure: 1-gallon unit  
 Fast cure: 1 and 2.5-gallon units  
 Standard: 2-1/2 gallon and 5-gallon units  
 All units are repackaged for convenient installation.

### PREPERATION

Concrete must be shot blasted or grinded to eliminate any curing agents, coatings, adhesives or surface contamination. Concrete surface must be prepared to reflect a profile of ICRI CSP 3 - 5. Once surface prep is completed, surface must be vacuum cleaned to remove all dust.

### CRACKS AND JOINTS

All cracks, joints and saw cuts should be opened with a crack chaser and vacuum cleaned. Patch with Nexus H20.

### EXPANSION JOINTS

See architect or general contractor for design and instruction.

### INSTALATION THICKNESS

Nexus 100 is a coating that should be installed at 14 mils minimum thickness, approximately 110 square feet per gallon. This can be accomplished in one 14 mil application or two applications of 7 mils each. If you need more than 48 hours to apply a cementitious topping, use the 2 - application method and apply sand to the second application.

### MIXING AND APPLICATION

NOTE: For best application properties, units should be acclimated between 60OF and 70OF (15OC and 20OC) if possible. Mix Part A to Part B together for 3 minutes at 400 rpm. Prevent any action that entraps air while mixing. Ensure materials at the bottom and sides of the mixing container are agitated. Pour Nexus 100 mix onto the concrete floor. Use a squeegee to slowly spread epoxy at a rate of 110 sq. ft. per gallon. Back roll with a 3/8" nap roller and evenly distribute the material to release air. Let cure to touch. Material should be clear when dry.

If floor covering is your final finish:

If patching or leveling is required prior to flooring covering installation, a Styrene Acrylic Primer should be used within the specified installation window prior to applying a self-leveling, skim coat or feather-type compound. Patching and leveling can begin when Nexus 100 turns clear and slightly tacky without transfer. Cure times vary. A test area is always recommended with the primer and underlayment prior to installation. Observe Dew Point when installing coatings or floor covering. Do not install flooring or coatings if the surface of Nexus 100 is wet.

You must be within the window for application of cement based patching and leveling materials.

#### **For Rapid cure system:**

Window for installation of patching compounds is 10 minutes after epoxy cures.

#### **For Fast cure system:**

Window for installation of patching compound is 60 minutes (TABLE STATES 4 HOURS) after epoxy cures.

#### **For Standard system:**

Window for installation of patching compound is 24 hours after epoxy cures.

If epoxy coating is your final finish:

You can use the Nexus 100 as a primer for your coating systems. Nexus 100 is compatible with 100 percent solid and solvent based systems.

#### **LIMITED WARRANTIES**

Extended Warranties are available. Written extended warranties are available on a per job basis. Please call for information.



**THE CONCURE GROUP**  
PERMANENT CONCRETE SOLUTIONS

# Nexus 100

EPOXY MOISTURE MITIGATION COATING

## Technical Data Sheet

**DISCLAIMER:**

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to substitution due to supply change shortages without prior notice. Please contact The Concure Group to confirm most up to date product information.