

## PRODUCT DATA

**3** 03 01 00 **Maintenance of  
Concrete**

# NITOPRIME 60

## Penetrating epoxy sealer

### Description

Nitoprime 60 is a two-component 100% solids penetrating epoxy sealer. It is designed to prime concrete and masonry before the application of epoxy liners and polyurea top coats.

### Yield

300 – 400 ft<sup>2</sup>/gallon (7.3 – 9.8 m<sup>2</sup>/L) over cementitious substrates, depending on substrate porosity.

### Packaging

1 gallon (3.7 L) kits, containing  
3/4 gallons (2.8 L) Part A in 1 gallon  
(3.79 L) cans  
1/4 gallons (0.9 L) Part B in 1 quart  
(0.9 L) cans

### Color

Clear amber

### Shelf Life

2 years when properly stored

### Storage

Store in unopened containers at  
60 to 80° F (16 to 27° C) in clean, dry  
conditions.

### Features

- Ultra-low viscosity
- Seals concrete pores
- Extended pot life
- Penetrating sealer
- Prepackaged kits
- Compatible with MBT epoxy, polyurea, and polyurethane topcoats
- 100% solids

### Where to Use

#### APPLICATION

- Before application of epoxy liners, such as Sewer Guard® HBS 100 and Novolac AR 170
- Manhole applications

#### LOCATION

- Vertical and horizontal substrates
- Interior and exterior surfaces

#### SUBSTRATE

- Over MBT spray mortars, such as SP 15
- Over cast-in-place or pre-cast concrete
- Over masonry

### Benefits

- Penetrates deep into substrates
- Reduces potential for outgassing and pinholing in top coats
- Increases working time
- Helps improve adhesion of topcoats to substrate
- Easy to mix and apply
- Versatile uses
- Zero VOCs

### How to Apply

#### Surface Preparation

1. Fully cured (28-day) concrete substrate can be dry or damp with no standing water.
2. Remove all grease, oil, chemical contamination, dust, laitance, and loose concrete by mechanical profiling to ICRI CSP 4 to provide a sound substrate. Complete all repairs and allow to reach load-bearing strength.
3. Nitoprime 60 has been specially tested for application over SP15 Spray Mortar. Wait for SP 15 Spray Mortar to cure 6 hours at 70° F (21° C) before applying Nitoprime 60. To improve adhesion, brush SP15 Spray Mortar with a stiff-bristled broom before applying Nitoprime 60.

#### Mixing

1. Mix Part A and Part B at low speed for 3 minutes with a Jiffy mixing paddle until a uniform amber color is achieved.
2. Scrape the sides of the mixing container to ensure correct mixing ratios from one batch to another.
3. Do not thin these materials.

## Technical Data

### Composition

Nitoprime 60 is a two-component 100% solids penetrating epoxy.

### Typical Properties

PROPERTY	VALUE
<b>Solids</b> , %, by volume	100
<b>Mix ratio</b> , by volume, A to B	3 to 1
<b>Weight/gallon</b> , mixed, lbs	8.4
<b>Mixed viscosity</b> , cps	
50° F (10° C) and 50% rh	100
75° F (24° C) and 50% rh	80
100° F (38° C) and 50% rh	60
<b>Pot life</b> , hrs	
50° F (10° C) and 50% rh	6
75° F (24° C) and 50% rh	4
100° F (38° C) and 50% rh	2
<b>Tack-free time</b> , hrs	
50° F (10° C) and 50% rh	12
75° F (24° C) and 50% rh	5
100° F (38° C) and 50% rh	3

All application and performance values are typical for the material but may vary with test methods, conditions, and configurations.

### Application

1. Brush, spray, or roll the mixed Nitoprime 60 onto the prepared concrete surface. Avoid puddling in low spots. For spray applications, use airless spray equipment.
2. Nitoprime 60 is fully absorbed within 45 minutes, depending on the porosity of the substrate. For porous or aged concrete, apply a second application when the first is fully absorbed.
3. Apply MBT epoxy liners, such as Sewer Guard® HBS 100 and Novolac AR 170, after the primer is tack free. If the primer surface becomes contaminated, sand it and reapply Nitoprime 60. The maximum recoat time is 72 hours.

### Clean up

Clean equipment with xylene immediately after use. Cured material must be removed mechanically. Clean hands and skin immediately with soap and water, industrial hand cleaners, or appropriate solvent.

### For Best Performance

- Do not use this product without a topcoat.
  - Do not allow puddling in low spots.
  - Do not apply if the air, substrate, or material temperature is below 50° F (10° C) or expected to fall below 50° F (10° C) within 12 hours.
  - Do not apply if temperature exceeds 110° F (43° C).
  - High temperatures will significantly reduce the pot life.
  - Store Part A and Part B in a dry area between 60 and 80° F (16 and 27° C) for 24 hours before using.
  - Do not break down kits; use full units only.
  - Do not allow the product to freeze. Keep containers tightly closed.
- 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 version.
  - Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job site.

## Health and Safety

NITOPRIME 60 PART A

### Warning

Nitoprime 60 Part A contains epoxy resin, glycidyl ester of neodecanoic acid, and benzyl alcohol.

### Risks

May cause skin, eye and respiratory irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Ingestion may cause irritation. 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

KEEP OUT OF THE REACH OF CHILDREN. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Keep container closed when not in use. Wash thoroughly after handling. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

### First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. 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, birth defects, or other reproductive harm.

### VOC Content

0 lbs/gal or 0 g/L, less water and exempt solvents, when mixed and applied according to BASF instructions

NITOPRIME 60 PART B

### Danger—Corrosive

Nitoprime 60 Part B contains N,N'-bis(1,3-dimethylbutylidene)ethylenediamine, tertiary amine, ethylenediamine, benzyl alcohol, diethylenetriamine, bisphenol-A, and methyl isobutyl ketone.

### Risks

Combustible liquid and vapor. Contact with skin or eyes may cause burns. Ingestion may cause irritation and burns of mouth, throat and stomach. Inhalation of vapors may cause irritation. May cause dermatitis and allergic responses. Potential skin and/or respiratory sensitizer. Repeated or prolonged contact with skin may cause sensitization. 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

KEEP OUT OF THE REACH OF CHILDREN. DO NOT get in eyes, on skin or clothing. Wash thoroughly after handling. Keep container closed. DO NOT take internally. Use only with adequate ventilation. DO NOT breathe vapors. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state, and local regulations.

### First Aid

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

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