

# PRIME 1100

Two component, solvent free, chemical resistant, high build, epoxy copolymer primer for concrete.

## HOW IT WORKS

PRIME 1100 chemically reacts with concrete. This reaction allows for physical consolidation of the concrete surface and improves the adhesion of coatings which allows for improved film integrity.

## APPLICATIONS

- ◆ Use to improve the adhesion and film integrity of high performance and alkaline sensitive coatings applied to concrete substrates.
- ◆ Use to improve adhesion of coatings to incompletely or poorly consolidated substrates that evidence low tensile strengths.
- ◆ Ideal for improving the adhesion of polyurethanes and other coating systems with low adhesive strength to concrete.

## ADVANTAGES

- ◆ Solvent free formulation is ideal for interior use and in areas where solvents pose a fire or health hazard.
- ◆ Prevents top coat solvent strike and related surface coat bubbling.
- ◆ Improves adhesion of top coats to surfaces that have received marginal cleaning or preparation.
- ◆ Provides higher primer solids than water based primer systems and gives adequate substrate seal in single coat primer applications.
- ◆ High humidity does not affect primer cure.
- ◆ Combines the superior adhesive strength and chemical resistance of epoxy with the flexibility of polyurethane.
- ◆ Easily mixed and applied.
- ◆ Meets all federal and state VOC requirements and meets California Clean Air Act Rule 1113.

## ▲ PRECAUTIONS ▲

- ◆ Do not use where moisture frequently contacts the underside of the primer.
- ◆ Do not apply to substrates that are not completely dry. Entrapped moisture from the subgrade

and the presence of a vapor barrier in or under the substrate can result in coating/topping blistering and adhesion failure.

- ◆ Do not allow primer to cure more than 24 hours prior to top coating in order to avoid sanding and repriming.
- ◆ Do not use where substrate temperatures may exceed 140° F (60° C).

## USE INSTRUCTIONS

- ◆ Request current product literature, labels and material safety data sheets from manufacturer and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions and construction have a major effect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify that product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.

### SURFACE PREPARATION

- ◆ Surfaces to be treated must be at least 30 days old and free from surface accumulations of dust, dirt, oil, debris, concrete cures, bondbreakers, rubber tire residue, paints and other compounds which would prevent product penetration and full contact with the concrete surface.
- ◆ New, clean concrete surfaces should be acid etched or mechanically scarified to an equivalent of a 100 grit sand paper prior to primer installation.
- ◆ Old floors may require mechanical cleaning (sandblasting, shotblasting, scarifying or other) to adequately remove surface contaminants and increase surface area to improve physical bonding. Acid etching of all mechanically cleaned area is recommended when possible.
- ◆ After surface preparation has been completed and prior to application of PRIME 1100, the floor Moisture Vapor Emission Rate (MVER) must be determined. The MVER must not exceed 4.0 lbs. per 1,000 sq.ft. (2.0 kg. per 100 sq. m.) per 24 hours when tested in

PRIME 1100



coatings - low, medium & high build



chemical solutions to concrete problems

accordance with ASTM F-1869 over a 72-hour test period. Floors exhibiting a higher MVER must be given additional time to dry. Application of PRIME 1100 to a floor exceeding the maximum allowable MVER can result in surface coating bubbles and/or delamination.

#### PRIMING

- ◆ Verify substrate temperatures are above 50° (10° C) and rising. Primer window is dependent on substrate temperatures. Verify primer window time span under site conditions with adequate site test.
- ◆ Mix PRIME 1100 Primer components individually with mechanical mixer for 2 minutes (use watch), then combine components and mix for an additional 2 minutes.
- ◆ Apply to substrate at a rate sufficient to consolidate substrate and to prevent air or solvent migration from or into subsequently applied top coating. Typical application rate is 250-400 sf/gal. (6-10 sm/l), but is dependent on concrete texture and porosity.
- ◆ Product may be applied by brush, roller or airless sprayer. If spray application is used, back roll the product immediately with a long nap roller to achieve uniform coverage.
- ◆ Allow primed surface to reach tack free state then commence coating operations promptly. Do not allow primer to cure more than 24 hours prior to top coating in order to avoid sanding and repriming.
- ◆ At substrate temperatures of 68° F (23° C) PRIME 1100 is typically dust free in 1 hour and tack free in 8 hours.
- ◆ Pot life is typically 20 minutes following mixing at 70° F (20° C) temperatures.

#### TECHNICAL DATA

Solids .....	100%
VOC .....	<50 g/l
VP .....	<4.7mmHG@20° C

#### PACKAGING

Product is packaged in .75 gal (2.8 l) and 4.75 gal (17.9 l) kits.

#### SHELF LIFE

Shelf life is one year. Use before the "USE BY" date stated on product packaging.

#### HANDLING/STORAGE

Store in a dry location within a temperature range between 60° F (16° C) and 100° F (38° C). Component A may partially crystallize if stored at colder temperatures.

#### AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, NOX-CRETE Products Group maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, phone (800) 669-2738 or (402) 341-1976.

#### LIMITED WARRANTY

##### NOTICE-READ CAREFULLY

##### CONDITIONS OF SALE

NOX-CRETE offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may only be varied by written agreement of a duly authorized corporate officer of NOX-CRETE. No other representative of or for NOX-CRETE is authorized to grant any warranty or to waive limitation of liability set forth below.

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