

CLEAN AIR FOR EVERYONE

SINAK NOxREDUx™ is a pollution-remediating concrete redoxing agent formulated to reduce vehicular exhaust pollutants by up to 68%. NOxREDUx™ creates an air purifying surface, resists weathering & staining, and will not be affected by traffic related wear while contributing to compliance with U.S. EPA's stringent National Ambient Air Quality Standard (NAAQS).

NOxREDUx™ is a water-based inorganic carrier containing anatase titanium dioxide that remediates airborne pollutants. It contains no VOCs or solvents. NOxREDUx™ is non-hazardous to fish and wildlife. NOxREDUx™ delivers photocatalytic anatase titanium dioxide (TiO₂) deep into the concrete capillary structure. The resulting air-purifying surface reduces pollutants related to vehicular exhaust.

MARKETS

- DOTs
- AIRPORTS
- BRIDGES
- URBAN/SUBURBAN MUNICIPALITIES

COMPATIBLE SUBSTRATES

- PAVEMENTS
- BRIDGE DECKS
- PARAPET WALLS
- PCC PAVING
- PARKING DECKS
- PRE-CAST CONCRETE
- VERTICAL CAST-IN-PLACE CONCRETE
- SOUND WALLS
- SIDEWALKS

FEATURES & BENEFITS

- Provides a self-cleaning, self-regenerating, air-purifying surface that removes nitrogen oxides (NO_x), volatile organic compounds (VOCs), and other airborne pollutants from the atmosphere.
- Treated surfaces will not be affected by traffic related wear.
- Compatible with joint sealants, patching materials, lane markers, traffic paint, striping, cementitious toppings, and crack repair processes.
- Protects treated surfaces against oil & chemical staining and damage.
- Reduces Green House Gas Emissions by 320,000 VMT per lane mile
- Cool Pavement Technology reduces harmful Heat Island effects

POLLUTION REDUCTION
(ISO 22197-1/JIS TRZ0018) 39%
NOX REDUCTION EFFICIENCY

ASTM E-274
(SKID RESISTANCE)
FN40R PRIOR TO APPLICATION: 43.4
FN40R 24HRS AFTER APPLICATION: 49.6

ASTM E-1980
(SOLAR REFLECTANCE INDEX)
UNTREATED: 24 SRI
TREATED: 38 SRI

X-RAY FLUORESCENCE
(DEPTH OF PENETRATION) > 26MM



COMPOSITION & MATERIALS

NOxREDUx™ is a water-based liquid with a proprietary formula in solution. Color: Milky White; Flash Point: None; Toxicity: Non-toxic; VOC: Contains no volatile organic compounds or solvents.

INSTALLATION

Apply to a clean and dry substrate that is free of curing compounds, sealers, coatings, or materials that inhibit penetration of NOxREDUx™. No shot blasting or grinding is required unless a membrane is present. Mix NOxREDUx™ thoroughly before and during application. DO NOT SHAKE. Low-pressure non-atomizing spray application is recommended. For horizontal surfaces, apply two coats of NOxREDUx™. For vertical surfaces, apply from the bottom up. Vertical application requires two coats of NOxREDUx™. Material rundown should not exceed 4-6" (101-152mm) during application. Clean all equipment by rinsing with water. Do not apply sealers or coatings that will inhibit the catalytic performance of NOxREDUx™.

NEW CONSTRUCTION INSTALLATION

Concrete shall be cured with a 7-day water cure or with a Curing Agent, Water-Cure Equivalent Type such as SINAK LithiumCure 1000™ or pre-approved method tested and proven to be equal to a 7-day water cure.

COLD WEATHER INSTALLATION NOxREDUx™

NOxREDUx™ can be applied at a temperature of 35°F (1°C) and rising. Do not apply NOxREDUx™ to frozen substrates. Contact SINAK for additional information.

PRECAUTIONS

Do not allow NOxREDUx™ to come into contact with any glass, metal, or painted surfaces. Excess product left to dry on the surface may result in streaking, whitening, or staining. Immediately wipe contaminated surfaces with a clean water-saturated cloth, then wipe dry with a second clean cloth. For questions regarding NOxREDUx™ contact SINAK.

COVERAGE RATES (SUBJECT TO SURFACE FINISH)

One-coat coverage rate is 200-250 sq ft per gallon (5-6 sq m per liter) for horizontal surfaces.
Two-coat coverage rate is 200-300 sq ft per gallon (5-7 sq m per liter) for vertical surfaces.

STORAGE & HANDLING

NOxREDUx™ has a six month shelf life when stored in a cool dry area out of direct sunlight. Must be kept in tightly secured containers to prevent evaporation and contamination. NOxREDUx™ MUST be protected from freezing. Product that has frozen will not function as intended, and should be discarded.

AVAILABILITY

NOxREDUx™ is available in 55 gallon (208.2-liter) drums and 275-gallon (1041-liter) totes.

TECHNICAL ASSISTANCE

Technical assistance is available from the manufacturer and trained field representatives.

SINAK warrants its products to be free from manufacturing defects and to meet the technical properties on the current product information sheet. To the maximum extent permitted by law, this express warranty and the remedies specified below are exclusive and in lieu of all other warranties and remedies. Any implied warranties including without limitation implied warranties of merchantability and fitness for a particular purpose are excluded. SINAK's liability under this product warranty shall be limited to a refund of purchase price or replacement of the product. SINAK shall have no liability for any loss of use, interruption of business, lost profits or goodwill, or for any special, incidental or consequential damages of any kind arising from the purchase or use of the warranted product, even if SINAK has been advised of the possibility of such loss, interruption or damage. This limited warranty may not be modified by representatives of SINAK, its distributors or dealers. Any claim made under this warranty must be made within twenty (20) years of the date of purchase and shall be accompanied by any reports or test results that form the basis of the warranty claim. Prior to settlement of a warranty claim, SINAK shall have the right, but not the obligation, to conduct site inspections and perform tests pertaining to the customer's warranted product and its manner of use.