

# YOUR BRAND

BY **Prú** PERFORMANCE COATINGS

TAKING THE R&D OUT OF YOUR BRAND SINCE 1921

## TECHNICAL DATA SHEET

# YB4 DENSIFIER

## CONCRETE DENSIFIER CONCENTRATED

### PRODUCT DESCRIPTION

YB4 DENSIFIER fortifies concrete slabs with a concentrated proprietary formula that penetrates to increase surface density and hardness. YB4 DENSIFIER can be applied at the time of placement as well as to older fully cured slabs to eliminate dusting and reduce porosity. YB4 DENSIFIER is especially effective to protect concrete floors subjected to steel wheel and forklift traffic.

YB4 DENSIFIER densifier is made of amorphous colloidal silica which we manufacture in house under the trade name "NanoPOUR" in fact, we do not know of any other densifier manufacturer that actually manufactures their own silica nano particles from raw materials. This allows us to do more things with densifiers than competition. a good example of this is the fact our densifier can be frozen, thawed and applied without causing any damage to the material. Our proprietary formula also increases hydration rates while lowering porosity. YB4 DENSIFIER also increases the primary strength component (C-S-H) Calcium Silicate

YB4 DENSIFIER is a zero voc formula that is also non-toxic and non-flammable. YB4 DENSIFIER reduces efflorescence, dusting and (ASR) Alkali-silica-reaction. YB4 DENSIFIER does not require scrubbing in or hazardous residue disposal and will not leave discoloring mineral salt deposits.

### FEATURES AND BENEFITS

- Ideal for Concrete Polishing
- Auto Scrubber or Pump Sprayer Application
- Fortified with NanoPOUR™ Densifier Technology
- Low Ph - Colloidal Silica Formulation
- Freeze/Thaw/Use Resistant Chemistry
- Concentrated 3:1 Formula
- Reduces Porosity
- Eliminates Dusting
- Extends the Service Life of the Slab
- Excellent Performance on Cementitious Overlays
- Cannot be over applied and will not leave mineral salt discoloration
- No VOC's, Non-Hazardous and non-Flammable
- Compatible with All YB4 Systems

### MATERIAL PACKAGING OPTIONS

1 Gallon Bottle / 3.78 Liters  
5 Gallon Pail / 19 Liters  
55 Gallon Drum / 208 Liters  
275 Gallon Tote / 1021 Liters

**Note:** This is a concentrated product and will yield 4 times the volume when mixed 3:1 with clean potable water

### COVERAGE RATES

1. Auto scrubber application method: YB4 DENSIFIER proprietary formula was designed to be applied to high & medium density concrete as well as high porosity and hard concrete.

**Application rate:** 375 square feet per gallon with auto scrubber set at full flow.

- 15 Gallon tank fill will densify 5,675 square feet of concrete slab
- 30 gallon tank fill will densify 11,350 square feet of concrete slab

2. Pump Sprayer Application Method

- 375 - 400 square feet per gallon.

### STORAGE AND SHELF LIFE

We recommend storing YB4 DENSIFIER in original containers with the lid fastened tightly. YB4 DENSIFIER has a shelf life of 24 months from the date of manufacture. Please keep YB4 DENSIFIER in a dry place within ambient conditions of 40-100 degrees Fahrenheit.

**Note:** Freezing will not impact performance. just thaw and use.

### MIXING AND APPLICATION

Dilution: Mix Ratio for both auto scrubber and pump sprayer application: 3:1

1. Open package concentrate
2. Mix 3 parts clean potable water to 1 part YB4 densifier
3. Mix can either be within the auto scrubber or pump sprayer

15 gallon auto scrubber tank - 3.75 Gallons  
30 gallon auto scrubber tank - 7.5 Gallons

Pump Sprayer ratios depend on pump sprayer size

**Note:** To facilitate mixing and agitation, place YB4 DENSIFIER into the mixing vessel first and then fill with clean potable water.

### EQUIPMENT

Apply YB4 DENSIFIER using a mechanical auto scrubber or pump sprayer. For pump sprayer application, use either a fan tip or cone tip to ensure even spraying.

### PRE-APPLICATION

While the Auto Scrubber application method does mitigate overspray, its still best practice to cover all area, surface and objects with plastic sheeting. please be aware of capillary absorption if wood or drywall is present and protect as needed. we recommend using YB4 CLEANER to clean and prepare the slab for the densification process. slab must be clean and free from oils, dust and other surface contaminants. Do not use acidic detergents when cleaning before or after application.

Measure square footage of project area (Square feet / Square Meter)

Mix the appropriate amount of YB4 DENSIFIER for the job size based on 375 square feet per gallon.

## APPLICATION INSTRUCTIONS

### A. Auto Scrubber Application Process - YB4 DENSIFIER CONCRETE DENSIFIER

Empty Auto Scrubber tanks and mix YB4 DENSIFIER, adding one part YB4 DENSIFIER to 3 parts water. Coverage rate is 375 sq. ft./gal. Apply YB4 DENSIFIER solution at full flow scrubbing with 400 grit red fiber pads at full down pressure and squeegee up. Scrub in a north/south, east/west pattern. Once completed, turn off the flow setting and continue scrubbing YB4 DENSIFIER solution to work it in for 45 minutes. Allow the surface to dry at least two hours after scrubbing. Note: For projects less than 1500 sq. ft., pail mix hardener solution and pour onto slab, spreading with a flat squeegee before scrubbing. WATER RINSE WITH SCRUBBER Empty scrubber tanks, rinse and fill with clean water. Travel at a medium walking pace in a north/south, east/west pattern with rinse water at full flow. Scrub with 800 grit white diamond pads at full down pressure and squeegee down. Edges and corners should be cleaned with a mop and wet vac to remove hardener residue. Allow floor to dry completely. For optional shine burnish the entire floor with a quality high speed heat style burnishing pad.

### B. Pump Sprayer application Process - YB4 DENSIFIER Concrete Densifier

Pour YB4 DENSIFIER concentrate into a pump sprayer and fill with clean potable water at a ratio of 3:1. Keep sprayer pressurized per the manufacturer's specifications to allow even distribution to the concrete surface. Spray YB4 DENSIFIER Densifier while holding the spray tip 12 -24 inches above the surface. Move the wand in a figure 8 motion to achieve even distribution. Spray enough to form an even sheen and avoid puddling. Apply additional YB4 DENSIFIER as needed. Allow surface to dry completely.

## DIAMOND GRINDING AND POLISHING

RIO-DENSE densifier is typically applied after the initial cutting stages and prior to the higher levels of diamond polishing. In most cases its used after 200 grit application, remove YB4 DENSIFIER residue with next grinding step.

## LIMITATIONS

RIO-DENSE densifiers harden and densify concrete, but do not seal or prevent staining. To seal and protect we recommend top coating with YB4 SLAB GUARD

- Do not clean with acidic or abrasive cleaning products. We recommend cleaning with YB4 SLAB CLEANER
- Treated surface will be slippery so please use extreme caution when walking.

## HEALTH AND SAFETY

WARNING: FOR PROFESSIONAL USE ONLY.

Before using product, read product SAFETY DATA SHEET (SDS) and instructions on packaging. ALKALINE CONCENTRATE: Contact can damage eyes, skin, and other body tissues. HANDLE WITH CARE. Eye and skin irritant. Digestive tract irritant; DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. Spray mist is respiratory tract irritant. Use only with adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with eyes, skin, clothing. Observe appropriate safety and jobsite controls. Wear appropriate protection including eye protection and chemical resistant gloves. Ensure fresh air-flow during application and until dry. If you experience headaches, dizziness, eye watering, or if air monitoring shows vapor/mist levels above applicable limits, wear a properly fitted P100/organic vapor respirator (NIOSH TC-84A approved), used according to manufacturer's directions, during application and drying. SLIP/FALL DANGER: During application of YOURBRAND Products and until dry, treated surface will be slippery.

### First Aid

Ingestion: Not expected to be toxic. Never give an unconscious person anything to ingest. If swallowed, immediately give two glasses of water, seek medical attention if ill effects develop. Inhalation: May cause irritation. Remove to fresh air and provide oxygen. If not breathing, give artificial respiration. Seek medical attention if irritation persists. Eye Contact: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists. Skin Contact: May cause irritation. Wash affected area with soap and water. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.

## PHYSICAL PROPERTIES

PHYSICAL STATE Liquid	APPEARANCE Opaque White
ODOR None	SPECIFIC GRAVITY 1.15 - 1.19 @ 77 °F / 25 °C
DENSITY 9.6 – 11.0 lb/gal	SOLUBILITY IN WATER Complete
pH (100 %) 2.6 - 3.2	VISCOSITY 15 cps @ 77 °F / 25 °C
FREEZING POINT 32 °F / 0 °C	VOC CONTENT 0.00 % EPA Method 24

Note: These physical properties are typical values for this product and are subject to change.

**Warranty:** YOURBRANDBYCRU products are warranted to be of uniform quality, within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the effects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing YOURBRANDBYCRU.

## 24 HOUR EMERGENCY: CHEMTREC® 1-800-424-9300

Published technical data & instructions are subject to change without notice. Please contact YOURBRANDBYCRU for the most current technical data, safety data & application instructions.



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