



Protec III Liquid Silica Fume (LSF) **WITH ACRYLIC MEMBRANE**

THE COMPLETE STRENGTH GAIN MATERIAL
FOR NEW CONCRETE FLOORS

Protec III LSF with acrylic membrane works on two different levels. First the acrylic component is integral to ensuring that new power trowel surfaces are cured properly. Secondly Protec III is a waterbased formulation incorporating silica fume technology. Once applied in the top wear layer, Protec III LSF with Acrylic Membrane produces greater density of strong cement paste bonds. The weak bonds inherent in concrete (generally make up 25% of the concrete paste) create poor abrasion resistance, increases shrinkage, causes dusting problems, and limits the durability of the concrete surface if left untreated.

USES

Used on all power trowel concrete floors.
Not compatible with flooring adhesives.

BENEFITS

Protec III LSF with Acrylic Membrane cures the concrete to help stop shrinkage cracking and curling and helps eliminate dusting and stops carbonation of concrete. The Liquid Silica Fume technology of Protec III also produces increased chemical resistance and hardens concrete.

SAFETY

Protec III LSF With Acrylic Membrane is not toxic or dangerous to the health of installers or surrounding workers unlike solvent based cures or the carcinogenic dust from dry shake hardeners.

TECHNICAL DATA

- Increases the hardness of the concrete wear surface
- Environmentally Safe and Permanent
- Meets **LEED Requirements**
- Increases Chemical Resistance
- Abrasion Resistant (ASTM C418 Increased resistance to abrasion by 67%)
- Dust proofs and Impact Resistant
- ASTM C309 Curing Type I Class A
- Increases Durability
- FOOD SAVE – APPROVED
- VOC'S: 9.5 grams/litre

CAUTIONS

- Protect surrounding area from over-spray. In case of accidental contact, rinse thoroughly with water immediately.
- Do not apply to frozen surfaces. For best results apply when the substrate and ambient air temperature is above 12 C. For surfaces not specified, we recommend testing a small

area to observe for possible adverse reactions.

- DO NOT FREEZE Product.

COVERAGE OF PRODUCT

- Use at a rate of 300 square feet per gallon.

SURFACE PREPARATION

- New concrete should be clean.

APPLICATION PROCEDURE

- Apply product with a low pressure sprayer or roller within 4 - 8 hours once finishing operations are done.
- Apply at recommended square foot coverage.
- Saw cuts need to be coated thoroughly.
- Apply 1 coat at the recommended rate.
- Roll out any puddles that form.
- Drytime: 4 hours at 20C or 68F

CAUTION: FOR HEAVY ABRASION

FLOORS (ie. Tracked in gravel and dirt that is being ground into the floor by forklifts)

FOLLOW THESE INSTRUCTIONS: Using Protec III Chem RX apply one coat to the areas that will be affected, let product dry. For 2nd coat apply Protec III with Acrylic Membrane using the normal application procedure. Normal wear and tear does not include heavy abrasion from gravel and dirt, therefore it is highly recommended to keep your floors clean to avoid unnecessary excessive wear.

STANDARDS

ASTM C418 Abrasion – 67% increase in hardness of the concrete wear surface.

ASTM C309 Curing, Type I, Class A
FLOOR CLASSIFICATIONS ACI 302, Class Numbers (1,3,4,5,6,7,8,9) floors

Exceptions: #3 second course only, #3,4, no if covered surface, #7 second course only, #8 second course only, #9 if topping please consult Technical Support. Works well for super flat floors.

ASTM C642 –72% decrease in absorption.

PACKAGING

5 gallon Pail or 55 gallon Drum

STORAGE

Optimal storage temperature of material should be between 10–18 C. Shelf life is 1 year unopened, agitate if necessary.

DO NOT FREEZE THIS PRODUCT

WARRANTY

We warrant our products to be of good quality and will replace any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. The user shall determine the suitability of the product for the intended use and assume all risks and liability in connection therewith. Therefore, except for such replacement of product, Cornerstone Coatings makes no warranty or guarantee express or implied including warranties of fitness for a particular purpose or merchantability, respecting its products, and Cornerstone Coatings shall have no other liability with respect thereto. This warranty supercedes all other warranties express or implied.