

Technical Data Sheet

LAST UPDATE: (January 2016)

Protec III (LSF) With Acrylic Membrane

The Complete Strength Gain Material
for New Concrete Floors

DESCRIPTION

Protec III LSF with Acrylic membrane works on 3 levels, which give it the clear and distinct advantage for concrete floors. Protec III LSF with Acrylic Membrane is easy to apply, because we use Liquid Silica Fume Technology and not silicates or siliconates, which are highly temperamental and difficult to work with. Protec III LSF with Acrylic Membrane is easily incorporated into the surface to increase the strength, hardness and micro-density of the concrete. Protec III LSF with Acrylic Membrane incorporates a high-end acrylic component to give a proper cure, virtually eliminating warping and topical cracking. Other products do not have this full cure capability, and the slab will show the tell-tale damaging signs of topical shrinkage cracking and warping. Winter heating environments often produce dusting of the concrete, using Protec III LSF with Acrylic Membrane will protect the surface from exposure to achieve a proper cure and eliminate dusting. Protec III LSF with Acrylic Membrane is less costly because the easy to use formulation eliminates the need for expensive and overpriced certified installers.

BENEFITS

Cures concrete to help stop shrinkage cracking and curling
Helps eliminate dusting and stops carbonation of concrete.
Increases the chemical resistance and hardness of concrete.
Environmentally Safe and Permanent
Meets **LEED** Requirements
Abrasion Resistant (ASTM C418 Increased resistance to abrasion by 67%)
ASTM C309 Curing Type I Class A
FOOD SAFE – APPROVED
Non-Toxic

USES

For Interior Use Only
Use on all new power trowel concrete floors.
Use on interior existing concrete as a hardener and sealer.
Not compatible with flooring adhesives.

PHYSICAL CHARACTERISTICS

Physical State: Liquid
Color: White
Odor: Slight Odor
VOC's: 9.5 grams/litre

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.

CAUTION

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 53°F (12°C). For surfaces not specified, we recommend testing a small area to observe for possible adverse reactions.
DO NOT FREEZE Product.

PACKAGING

18.9 Litre Pail
205 Litre Drum

SHELF LIFE: 2 years in original unopened container.

STORAGE

Optimal storage temperature of material should be between 50-64°F (10-18°C).
Agitate if necessary before use.

COVERAGE

Summer Temperatures use at 300 ft²/gal (28 m²/litre)
Winter Temperatures use at 400 ft²/gal (37m²/litre)
INTERIOR/EXISTING CONCRETE ONLY
Apply at a rate of 250 ft²/gal (23 m²/litre)

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.

SURFACE PREPARATION

New or existing concrete should be clean.

APPLICATION

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 68°F (20°C)

Either roll or spray.

Roll out any puddles that form.

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
supersedes all other warranties express or
implied.