



Application Specification

GYM-FLOR V

Purpose and Scope

Instructions for the mixing and application of Dex-0-Tex Gym-Flor V over properly prepared surfaces.

Thickness.....54 -68 mils

Approximate Quantity of Materials Required

To Cover ONE THOUSAND SQ. FT (93 sq. meters)

<u>Description/Packaging</u>	<u>Amount Required</u>	<u>Spread Rate Per Mixed Gallon</u>
C Bondcoat		
Comp. A (2 gal.).....	0.148 units.....	225 ft ² /gal.
Comp. B (1 gal.)		
SC Membrane		
Comp. A (1 gal.).....	2.0 units	40 ft./gal.
Comp. B (1 qt.)		
Quik-Glaze Top Coat		
Comp. A (1 gal.).....	0.33 units	225 ft./gal.
Comp B (1/2 gal.)		

Option:

Additional Quik-Glaze require for an additional clear required for a clear top is as follows per coat at 7 mils DFT.

Quik-Glaze Clear Gloss Unit 1.5		
Comp. A (1 gal.).....	0.33 units	225 ft./gal.
Comp. B (1/2 gal.)		

NOTE:

Additional Quik-Glaze require for line stripping, Quantity is dependent on lineal footage of lines required, approximated 500 lineal feet per gallon or 750 lineal feet per unit 1.5

NOTE:

Order approximately .25 gallons Dex-O-Tex Thickener Powder for each gallon SC Membrane when using this material to fill cracks and joints.

Equipment Required

- Mixing Containers
- Porcupine Roller
- Brushes
- Rubber Gloves
- Safety Glasses/Goggles

Suitable solvent for clean up

Notched steel trowels or rubber squeegees

(18” deep on 1/4” centers)

“Jiffy” type mixing blade (similar to Jiffy Model

“PS” or Goldblatt Model #15 304 M7)

Surface Preparation

A. CONCRETE

New concrete must be water cured or with a curing compound that meets the requirements of ASTM C309 or ASTM C1315 only. Concrete should be structurally sound (3000 PS compressive minimum). Concrete must be clean, dry and free of ridges, sharp projections or other defects Surface must be clean and free of all grease, oil, curing compound, surface hardener, laitance or any other material on concrete which would prevent adhesion must be removed. Shot-blasting, sandblasting, or power scarifying, Prepare in accordance with SSPC SP-13/NACE 6.

B. WOOD FLOORS

Dex-O-Tex SC Membrane may be applied over wood floors after application of wire mesh reinforced A-81 Underlayment. Generally, 2.75 Flat Rib 1/8” Galvanized Metal Lath is fastened to the wood deck with 4-penny galvanized nails or staples 6” center. Consult Crossfield Application Specification S-1 for more information.

C. TILE

Dex-O-Tex SC Membrane may be applied over quarry tile after thoroughly cleaning and scarifying the tile and applying C Bondcoat. Loose tile should be removed. Depressions may be filled with A-81 Underlayment. Tile flooring should always be primed with VaporControl Primer, C Bondcoat or 500W Primer VaporControl Primer is recommended for areas where moisture is present. Tile mortar beds and grout joints should be inspected to determine the moisture content of the tile subsurface. Subsurfaces such as dry pack mortar beds saturated with water must be dried out before SC Membrane is applied.

D. METAL

Remove all dirt, rust, oil, paint, etc. from metal surfaces and prime with TM Bondcoat epoxy primer.

E. OTHER SURFACES

Consult Crossfield Products Corp.

F. UNDERLAYMENTS

Fill all major holes, depressions or cavities in concrete with Crossfield's A-81 Underlayment or Cheminert K epoxy mortar.

G. EXPANSION JOINTS

Concrete decks should have a control joint system worked out to meet all known structural stress concentration points. Joint design should accommodate the movement expected. Generally, the width of the joint should be 1/8" and the depth should be 2/3 the thickness of the concrete. Priming of the sidewalls of the joint with C Bondcoat epoxy is highly recommended. Under certain conditions, Dex-O-Tex SC Membrane may be used to fill and seal expansion joints. Consult Crossfield Products for limitations.

NOTE: SC Membrane should be used to fill joints only on temperature-stable decks where expansion and contraction is minimal. Consult Crossfield Products for specific limitations and recommendations.

H. MOISTURE TESTING

All surfaces to which SC Membrane is applied must be visibly dry and pass the 4 hour rubber mat test (no visible condensation) prior to application of the flooring.

Job Site Survey

- A. Perform moisture testing in accordance with one of the following methods:

ASTM F1869 *Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*. Verify and document the results in accordance with the specification. If MVER exceeds 3 lbs./24 hrs./1000 sq. ft. and is under 10 lbs./24 hrs./1000 sq. ft., apply Dex-O-Tex VaporControl Primer 200 as per

Application Specification S-970. If MVER exceeds 10 lbs./24 hrs./1000 sq. ft. and under 15–22* lbs./24 hrs./1000 sq. ft., apply VaporControl Primer 100 as per application specification S-972.

ASTM F2170 *Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*. Verify and document the results in accordance with the specification. If the in-situ relative humidity (rh) of the substrate is greater than 75% and less than 84%, apply Dex-O-Tex VaporControl Primer 200 as per Application Specification S-970. If the in-situ relative humidity (rh) is greater than 84%, and less than 89–99%*, apply VaporControl Primer 100 as per Application Specification S-972.

*Apply VaporControl Primer 100 at the specified thickness required as per Application Specification S-972 for the level of MVER or in-situ relative humidity percentage of the substrate.

- B. Inspect substrate to verify proper preparation before applying any materials.
- C. Measure and record ambient temperature and humidity, surface temperature and the temperature of the material being used. Do not proceed with the application if the conditions are outside the recommended parameters
- D. Inspect materials to be used. Verify material is the proper material and all components and sizes are correct. Inspect all containers and verify a proper factory seal with no signs of damage or leakage. Premix Liquid materials into a smooth homogenous blend before uses.

Environmental Conditions

All materials are mixed, applied and cured at the job site. Minimum environmental conditions are required to facilitate proper curing and Performance of the Products. Ensure conditions are in accordance with the following requirements.

	<i>Min</i>	<i>Max</i>
Ambient Temperature	45°F	100°F
Relative Humidity	20% rh	85% rh
Wind	NA	30 mph

Substrate		
Temperature	55°F	90°F
Relative Humidity	NA	78%
MVER	NA	3 lbs*

Materials
Temperature 60°F 85°F
*3 lbs of MVT, per 1000 sq. ft., during 24 hr. period as measured by ASTM F1869.

Materials should be delivered in original packages and containers with seals unbroken and bearing manufacturer's labels containing brand name and directions for storage and mixing with other components. Check materials immediately upon receipt, verify all the correct materials in the correct packaging are accounted for in good condition. Sort the materials and store them in a tempered storage area.

STEP ONE – Bondcoat

C Bondcoat

Mix Ratio: 2A:1B Pot Life: 35 min
Cure Time: 6 hrs Recoat Time: 6-48 hrs.
Coverage: 225 sq. ft. DFT: 7 mils

A. Mix together the following materials:

C Bondcoat Comp A	(2 Parts by Volume)
C Bondcoat Comp B	(1 Part by Volume)

Measure out the required amount of Component A and Component B and pour into a clean mixing container, scraping the sides and bottom of cans to insure all materials are used. Mix with a low speed electrical mixer for approximately three minutes to a homogenous blend.

B. Apply a thin coat of C Bondcoat using a trowel, squeegee, or roller over the area to be coated. Do not allow primer to puddle or be applied too thick. A Three Gallon Kit (2 gal A: 1 gal B) mixture should cover approximately 675 square feet (225 sq. ft. / mixed gallon) over smooth surface. If surface is very porous, two coats may be required. Allow to cure before proceeding with the application.

OPTION: pigmented C Bondcoat

C Bondcoat

Mix Ratio: 2A:1B:1 CP* Pot Life: 35 min
Cure Time: 6 hrs Recoat Time: 6-48 hrs.
Coverage: 225 sq. ft. DFT: 7 mils

A. Mix together the following materials:

C Bondcoat Comp A	2 gallons
C Bondcoat Comp B	1 gallon
Colorpax E	1 pint Colorpax*

NOTE: Colorpax E are premeasured and the volumetric content varies depending on the selected color. When using Colorpax, never split packaging. Always mix in full unit sizes.

Pre-mix C Bondcoat component A with a ColorPax E. Mix into a homogenous blend with even color dispersion. Working time is approximately (30) minutes at 75 Deg. F and RH 80. Trowel, squeegee or roller apply the mixture onto the prepared surface at nominal rate 225 sq. ft. per gallon. (Expected yield is 6-7 mils thickness depending on the porosity of the substrate). A “Unit 3” of C Bondcoat with pint size ColorPax-E. This will cover approx. 675 sq. ft. Do not puddle the material.

B. Allow to cure until tack free (6-12 hours) before continuing.

NOTE: Optional alternate primers include Dex-O-Tex AF Bondcoat, and Vapor Control Primers 100 or 200. Consult Crossfield.

STEP TWO – Gym-Flor V Basecoat

SC Membrane

Mix Ratio: 3A:1B Pot Life: 35 min
Cure Time: 6 hrs Recoat Time: 6-48 hrs.
Coverage: 40 sq. ft. DFT: 40 mils

A. Mix together the following materials:

SC Membrane Comp A	(3 Parts by Volume)
SC Membrane Comp B	(1 Part by Volume)

B. Blend together in a clean container Component “A” and Component “B” of the SC Membrane resin until thoroughly mixed, about (3) minutes.

gallon (1 gal A: 1/2 gal B) mixture should cover approximately 338 square feet (225 sq ft / mixed gallon) over smooth surface. Always work into a wet edge.

CAUTION: Quik-Glaze is a fast setting material and requires rapid mixing and placement. Take care to apply the material before it starts to set. This may require additional personnel to facilitate the fast cure and short pot life of the material.

OPTION: An optional second coat of Quik-Glaze can be applied to create a thicker application. A second coat is needed to achieve a 16 mil DFT system.

Cautions

1. Read and follow Specification S-900.
2. If subsurface is not correctly pitched or requires fill, Crossfield Products A-81 Underlayment may be applied to smooth out or slope the surface. Consult Crossfield for a recommendation of a suitable underlayment.
3. Material must be stored at 60° F., minimum temperature at least 24 hours prior to use. Material, surface and air temperature must be 55NF. or above during application and for 24 hours thereafter.
4. Be sure to drain all the resin “A” and “B” components from the containers. Scraping the cans will be necessary.
5. During application, these materials may be physically irritating to some persons working with the materials. Always use protective hand cream and observe rules of good personal hygiene. First aid is required if eye contact is made.
6. Good ventilation must be provided for personnel working in confined spaces.
7. Xylene or other high-flash solvents may be used to clean equipment for bondcoat and basecoat applications. Acetone should be used with the Quik-Glaze Top Coats

General Cautions

1. Read and follow Crossfield Products Corp. Application Specification S-900.

2. For proper workability it is important that the Dex-O-Tex materials be stored and mixed at a temperature of 65°F - 80°F (18°C – 26°C).
3. The substrate temperature should be between 65°F - 80°F.
4. A warm substrate will decrease the pot life and make the materials sticky. A cooler substrate will retard the cure and may cause a blush or bloom of the resin system.
5. All concrete curing agents, sealers and hardeners must be removed from the concrete prior to the application of the Bondcoat.
6. When mixing the resin components, be sure to use the entire amount of provided product. The materials are pre-measured to the correct ratios. Scrape all of the hardener from the container into the resin.
7. Do not turn mixing vessels upside down to drain on the flooring surface. Unmixed materials from the side may produce soft or uncured spots on the flooring surface.
8. Keep the unfinished flooring surface clean. Do not track dirt, grease, or any other contaminant onto the unfinished flooring surface. Any contaminant could effect the aesthetics of the finished flooring.
9. Good ventilation must be provided during application, particularly in confined spaces.
10. Always obtain, read and observe Manufacturer’s Safety Data Sheet (MSDS) before handling epoxy materials. Become familiar with the products on paper before you open the cans.

Cautions for the Safe Handling of Polymeric Resinous Floor Systems

1. Read and observe precautionary statements on product labels.
2. Obtain, read and observe MSDS for these materials.
3. Keep containers tightly closed and out of reach of children.
4. For industrial use only. Do not allow application by untrained workers.
5. Remove contaminated clothing and shoes. Wash clothing before reuse.
6. Use of safety goggles and chemical resistant gloved are recommended. Wear only full length trousers and long sleeve shirts. Apply protective cream to exposed skin areas.

7. In general, prolonged contact of epoxies with skin may cause irritation. Contact with curing agents may cause skin burns. Products may cause skin sensitization or other allergic responses. Avoid all contact with eyes.
8. In case of contact with skin, immediately remove the material with soap and water. Upon completion of work at lunchtime or end of day, carefully check all skin surfaces for traces of epoxy. Wash with soap and water. If wash facilities are not located nearby, establish a water washing station at work site. Do not use solvents to remove epoxies from skin as solvents will drive epoxies deeper into the skin. If redness or skin rash develops consult a physician.
9. In the event of eye contact, flush immediately with plenty of water for at least 15 minutes. Consult a physician immediately.
10. First Aid for inhalation: if effects occur, remove patient to fresh air. If not breathing, give artificial respiration, preferable mouth to mouth. If breathing is difficult, give oxygen. Get immediate medical attention.



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