



Application Specification

SUBKOTE 1 PUMICE MIX UNDERLAYMENT

Purpose and Scope

Instructions for the application of Dex-O-Tex Subkote 1 on a prepared surface as a lightweight underlayment for fairing off, ramping or otherwise leveling a deck. Dex-O-Tex Subkote 1 is manufactured to conform to the requirements of MIL-PRF-3135, Type I, Class 1.

Thickness..... 3/4” (19.1 mm)
Maximum per application

Approximate Quantity of Materials Required

To Cover ONE HUNDRED SQ. FT (9.3 sq. Meters)

THICKNESS

1/4” 3/8” 1/2”
(6.35mm) (9.53mm) (13.7mm)

Item # 0881 N-38 Paste
(5-gal. can) 1.10 cans 1.60 cans 2.10 cans

Item # 1211 Pumice Mix
(54-lb. Bag) 2.00 bags 3.00bags 4.00 bags

Or

Item # 0881 N-38 Paste
(5-gal. can) 1.10 cans 1.60 cans 2.10 cans

Item # 1204 N-99 Underlayment Powder
(67-lb. Bag) 1.00 bags 1.50 bags 2.00 bags

Item # 14-96-50 Pumice #4
(50-lb. Bag) 1.00 bags 1.50 bags 2.00 bags

Surface Preparation

Metal deck surfaces should be cleaned free of rust, loose scale, and dirt. Grease and oil should be removed with approved solvents and clean rags. The resulting surface should be clean and bright and protected against corrosion before Dex-O-Tex materials are applied. Dex-O-Tex Subkote 1 may be applied to a cured Navy Formula 150 Primer, MIL-DTL-24441 or MIL-PRF-23236. Consult Crossfield

Products Corp. when wood or other deck surfaces are involved.

Material Temperature

The temperature of the materials should be between 65°F to 80°F (18°C to 29°C) for best mixing and application properties.

Ambient Temperature

For best working properties the ambient room temperature should be between 65°F to 80°F (18°C to 24°C). However, Vibra-Cooustic SVD-SLU can be installed in ambient temperatures as low as 55°F to as high as 100°F. However, workability will be adversely affected. A minimum temperature of 55°F and maximum temperature of 100°F must be maintained during and for at least 24 hours after application for proper curing.

Substrate Temperature

Deck surface and room temperature of 65°F to 80°F (18°C to 24°C) should be maintained for at least 24 hours prior to and after installation for proper curing.

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Option One N-38 and Pumice Mix

A. Mix together the following materials to form the Surface Wetting Mix:

N-38 Paste 5 gallons
Pumice Mix 2 bag, (54 lbs.)

Blend these materials together thoroughly with hoe in clean mortar box or by Drill Mixing.

The above quantity is sufficient to cover approximately:

50 sq. ft. (4.65 m²) in a 1/2” (12.7 mm) thickness,
67 sq. ft. (6.23 m²) in a 3/8” (9.53 mm) thickness,
or 100 sq. ft. (9.3 m²) in a 1/4” (6.35 mm) thickness.



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Take approximately 1/2 gallon of the mixed underlayment mortar and add 1/2 gallon of N-38 Paste, mix into a homogenous blend. Use this mix as a surface wetting mix to prime the surface before applying the underlayment mortar. Apply surface wetting mix with the edge of steel trowel or brush on with a foxtail broom or masonry brush approximately 30 mils thick or 50 square feet per gallon. Only apply the amount of wetting mix that can be covered with Subkote-1 prior to drying.

Option Two N-38, N-99 Underlayment Powder and Pumice

A. Mix together the following materials to form the Surface Wetting Mix:

- N-38 Paste 5 gallons
- N-99 Underlay Powder..... 1 bag, (67 lbs.)

Blend these materials together thoroughly with hoe in clean mortar box or by Drill Mixing. After these materials have been thoroughly combined, take out one gallon of the resulting mix to be used as a Surface Wetting Mix.

Apply surface wetting mix with the edge of steel trowel or brush on with a foxtail broom or masonry brush approximately 30 mils thick or 50 square feet per gallon. Only apply the amount of wetting mix that can be covered with Subkote-1 prior to drying.

To the remaining material, add and mix thoroughly:

- Pumice 1 bag, (50 lbs.)

The above quantity is sufficient to cover approximately:

- 50 sq. ft. (4.65 m²) in a 1/2" (12.7 mm) thickness, 67 sq. ft. (6.23 m²) in a 3/8" (9.53 mm) thickness, or 100 sq. ft. (9.3 m²) in a 1/4" (6.35 mm) thickness.

B. Place the Subkote 1 material with a mag float or screed bar to approximately the thickness desired.

C. The pumice mix should then be troweled onto the Surface Wetting Mix while it is still wet so that the Surface Wetting Mix and the pumice-filled mix make a homogeneous mass. Since the Subkote 1 is rather dry, it must be packed and compressed onto the surface using a trowel held almost flat. Smoothness of the underlayment must be developed with the initial troweling and cannot be re-troweled repeatedly due to the relatively quick set of the materials. Weather conditions affect some of the wetness of the pumice mix. For achieving good control of the thickness of the material, the use of a guide strip is recommended. Drying time is approximately 24 hours, depending on thickness and humidity conditions.

C. Subkote 1 should not be applied in a thickness of greater than 3/4" (19.1 mm) in any one coat. Greater thicknesses may be achieved by the application of additional coats, each with a Surface Wetting Mix to insure a good bond. Allow drying time between each coat.

D. In order to achieve a particularly smooth surface, the Subkote 1 may be sanded free of "trowel licks" with a sanding block or disc-type floor sanding machine mounting a medium grit closed-coat sandpaper.

Cautions

1. Before opening packages or applying materials, obtain, read and observe MSDS for the products.
2. Make sure that Subkote 1 is completely dry before applying a solvent-type adhesive for resilient or ceramic floor finishes. Unless the Subkote is completely dry, the adhesive may give up its bond.
3. Do not allow the Paste to freeze. In the event that Paste has been frozen, allow it to thaw out slowly at room temperature and do not heat to speed up rate of thaw.



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4. Do not store Paste near a heater or in any area where it might become heated above 90°F.
5. Do not allow Dex-O-Tex materials to harden on tools and equipment. Fresh water will clean tools immediately after using.
6. Do not apply Subkote 1 on a hot surface.



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