



Dex-Screed Underlayment Leveling Compound

Application Specification

Purpose and Scope

Instructions for installation of Dex-O-Tex Dex-Screed self-leveling underlayment, leveling compound over steel or other nonferrous metal surfaces.

Thickness

Minimum: From Featheredge of 3/16" (4.77mm), maximum of 3" (75mm) per application. Use multiple applications when thicknesses greater than 3" are required.

Approximate Quantity of Materials Required

To Cover ONE HUNDRED SQ. FT (9.3 sq. Meters) at 3/16" (4.77mm)

Description/Packaging	Amount Required	Coverage
TM Bondcoat		
Component A (1 gallon can)		
Component B (1 Quart Can)	0.33 unit	300 SF
Dex-Screed Powder		
(49 pound bag)	4 bag	25 SF

NOTE: Coverage for one unit of Dex-Screed is 25 square feet at a strict 3/16" thickness. This does not allow for varied application thicknesses, irregularities in the steel deck plate substrate, or waste. When estimating material requirements, calculate appropriate material allowances for these contingencies, actual material consumption can only be determined after an in depth site survey. When weight consideration is of major importance, use screed bars to determine the existing deck profile and conformity, then apply Dex-Screed to the minimum thickness.

Equipment Required

- Mixing Blade mounted in medium speed (500-1200 RPM), 1/2" (12 mm) drill
- Mixing Containers
- Jiffy Blade, (small size)
- High Viscosity Materials Mixing Blade
- Rubber-Edge Squeegees, one 12" (30 cm) and one 6" (15 cm)
- Brushes,

- Roller frame, short nap roller covers
- Extension Handles
- Gauge Rake
- Smoothie Trowel
- High Intensity Lighting, preferably deck level
- Approved solvent for cleaning tools
- All required Personnel Protective Equipment, gloves, safety glasses, hand cream, etc.

Surface Preparation

METAL: Deck surfaces shall be prepared in accordance with SSPC SP 11/NACE 6, to remove all mill scale, rust, paint, etc., to gray steel or as specified. Surface should be dry and free of rust, dirt, oil or grease before Dex-Screed is installed

Decks that have been properly prepared and primed with Navy Formula 150 Primer, MIL-DTL-24441, EURONAVY ES301K Primer, or Pre-Construction Primer (PCP, Zinc Silicate), should be prepared in accordance with SSPC SP 1 and allowed to dry completely before application of Dex-Screed. If any rusting is evident, prepare in accordance with SSPC SP 3 and SP 1; do not proceed with application until approved by supervising authority.

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 Product. Ensure conditions are in accordance with the following requirements.

Ambient	<i>Min</i>	<i>Max</i>
Temperature	45°F	100°F
Relative Humidity	NA	95% rh
Wind	NA	30 mph
Substrate		
Temperature	45°F	90°F
Materials		
Temperature	60°F	85°F

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



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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.

APPLICATION

STEP ONE – Primer

TM Bondcoat

Mix Ratio: 3A:1B Pot Life: 25 -35 Min
Cure Time: 4 Hrs. – 8 Hrs. Recoat Time: Tacky – 48
Hrs Coverage: 300 SF/Gal DFT: 4-5 Mils

The TM Bondcoat A & B Components are supplied as a unit in two separate containers.

After the surface to be covered has been properly prepared, and proper environmental conditions have been verified, pour the contents of the can containing TM Bondcoat Component B into can containing Component A. Blend thoroughly with a low rpm drill motor (600 rpm) and a “Jiffy” blade or other mechanical means for two (2) minutes. TM Bondcoat has a pot life of approximately 1/2 hours at an ambient temperature of 70°F to 75°F, (21°C to 24°C). The working time of the material will be lengthened if it is either poured out of the mixing pail onto the surface and then worked from there, or poured into a wide receptacle, (such as a paint roller tray), and then worked from that.

A 1/2 gallon unit of TM Bondcoat will cover approximately 150 SF (13.94 m²) a one gallon unit will cover 275-325 SF (27.9 m²) on steel decking when applied with squeegee.

TM Bondcoat may be applied in two techniques, as follows:

- A. Apply to area in a very thin coat with brush, trowel, or squeegee immediately prior to placement and application of Dex-Screed Underlayment, allow to take an initial tack before placing the Dex-Screed material, **LEAVING NO PUDDLES, or**

- B. Apply the Primer to large area and sprinkle a small amount of dry #30-#60 silica sand onto the wet Bondcoat surface. Apply Dex-Screed Underlayment the next day (within a 24 hour period). The aggregate will produce a higher surface tension “tooth” which will keep the Dex-Screed Underlayment from sliding on the dried Bondcoat surface.

STEP TWO – Dex-Screed Underlayment

Underlayment

Mix Ratio: 1 Gal: 49 Lbs. Agg Pot Life: 20 - 25 Min
Cure Time: 6 Hrs. – 12 Hrs. Recoat Time: NA
Coverage: 25 SF @ 3/16” DFT: 187 - 3000 Mils

SMALL AREA APPLICATION TECHNIQUE

- A. Mix together the following materials:

Dex-Screed Powder 1 bag (49 lbs.)
Clean potable water 1 Gallon

Mix together 1 gallon clean potable water for every 49 pounds of Dex-Screed Powder, blended with a medium speed 1/2” chuck drill mounted with a beater style mixing blade. (For Larger applications refer to next section “Large Applications Technique”). Gradually pour the Dex-Screed powder slowly into premeasured water while mixing. Take care to thoroughly blend the mixture in to a smooth homogeneous compound with no dry lumps. Take care to prevent air entrainment.

- B. Use spiked shoes or cleats to walk out on the area to receive the Dex-Screed. Pour the Dex-Screed in a ribbon across the area to be leveled. Spread the Dex-Screed Underlayment with a gauge rake set at the desired thickness.
- C. Once the Dex-Screed is placed use the smoothie tool to gentle float across the surface and float the material into place. Take care not to press too hard that you move the material around, use a light touch just to break the surface tension of the material. Use spiked shoes or cleats to keep from stepping directly into the material and displacing the underlayment.



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Do not overwork the material or attempt to move it after initial set.

- D. Allow to cure 12 hours before allowing light foot traffic. Allow a minimum 24 hour cure before proceeding with application of any impermeable floor covering or coatings. The Dex-Screed must be prepared by mechanical abrasion or light blasting when a subsequent application of resinous flooring is to be installed.

LARGE AREA APPLICATIONS TECHNIQUE

- A. Using an auger style pumping machine (such as the Wade Industries pump) set the automatic water volume to 4 quarts per bag. Pour Dex-Screed Underlayment powder into the hopper. Keep underlayment powder in the hopper at all times. Examine the material as it is being poured into the hopper to be sure there are no lumps of dried powder being placed into the pump. Take care not to get any foreign materials such as pieces of the bags into the hopper. Take care to thoroughly blend the mixture in to a smooth homogeneous compound with no dry lumps. Take care to prevent air entrainment

The mix ratio is

Dex-Screed Powder.....1 bag (49 lbs)
 Clean potable water.....1 gallon

- B. Use spiked shoes or cleats to walk out on the area to be coated. Pour the mixed Dex-Screed from the nozzle of the hose into a ribbon across the area to be leveled. Spread the Dex-Screed Underlayment with a gauge rake set at the desired thickness.

- C. Once the Dex-Screed is placed use the smoothie tool to gentle float across the surface and float the material into place. Take care not to press to hard that you move the material around use a light touch just to break the surface tension of the material. Use spiked shoes or cleats to keep from stepping directly into the material and displacing the underlayment. Do not overwork the material or attempt to move it after initial set.

- D. Allow to cure 12 hours before allowing light foot traffic. Allow a minimum 24 hour cure before proceeding with application of impermeable floor covering or coatings.

The working time of Dex-Screed is approximately 20-25 minutes (from when the material is first mixed) at an ambient temperature of 70°F to 75°F (21°C to 24°C). A one bag mix should cover approximately 25 SF at 3/16” (4.77 mm) thickness.

Overnight cure is desirable before application of any other deck finish.

Cautions

1. Before opening packages or applying materials, obtain, read and observe MSDS for the products.
2. Make sure that Dex-Screed Underlayment is completely dry before applying a solvent-type adhesive for resilient or ceramic floor finishes.
3. Do not allow the Dex-Screed materials to be stored in high humidity.
4. Inspect materials before application to make sure they have not become compacted and are free from lumps or hardened materials.
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 Dex-O-Tex Dex-Screed Underlayment on a hot surface.
7. Keep materials in cool, dry storage. Rotate stock. Use within six (6) months of manufacture.



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