



# TITAN<sup>®</sup>-B1

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## SEALER / PRIMER

**TiTan-B1** is designed as a high performance sealer and coating for concrete. Supplied in a convenient one to one mix ratio. **Titan-B1** is capable of penetrating and filling the pore structure of the concrete to provide an effective subsurface barrier to prevent moisture migration and chemical penetration.

**Type:** Two-component polyamide cured, liquid epoxy solvent based primer.

**Applications:** Due to **Titan-B1's** highly penetrating properties on properly prepared concrete it provides pore filling and strengthening the top concrete layer to form a sufficiently strong base for subsequent top coats. An exceptional characteristic of **Titan-B1** is its high bond strength to a variety of substrates.

**Applicable Standards:** **Titan-B1** is recommended for use on class 1,2,3 & 4 concrete floors as classified in table 1.1 ACI Standard 302-69.

<b>Colors</b>	Clear
<b>Mix Ratio</b>	1 to 1 by volume
<b>Volume Solids</b>	50± 2%
<b>Theoretical Coverage</b>	800 mil sq. ft./gal.
<b>Recommended Coverage</b>	3-3.5 mils DFT
<b>Pot Life @ 25°C</b>	8-10 hrs.
<b>Cure Time @ 25°C(recoat)</b>	8 hrs.
<b>Initial Cure @ 25°C</b>	12 hrs.
<b>Final Cure @ 25°C</b>	7 days
<b>Seward Hardness</b>	70-75
<b>Shelf Life</b>	1 year min.
<b>Thinner</b>	Pilgrim 111

\* consult Pilgrim representative for specific conditions

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**Surface Preparation:**

In order that a coating system can wholly fulfill the job it is intended to do, i.e. to protect the substrate against damage, the substrate and the protective layer must adhere as tightly as possible.

It is a condition for the good adhesion of the coating that the substrate has been satisfactorily prepared. If it has not, good results are doubtful from the very start, quite irrespective of the binder system.

Metallic surfaces should be cleaned by suitable mechanical preparation. Steel surfaces are best freed from rust and mill scale by blasting with sand or shot. When blasting is impossible, derusting should at least be thoroughly done by hand.

Grease, oils and other troublesome matter must be removed in order to achieve satisfactory wetting of the paint carrier.

Concrete must be prepared. Concrete with laitance layer or one that has been sprinkled with cement is rather weak in the upper zone. A primer-sealer, on the other hand, penetrates insufficiently into the closed surface. That is why it is absolutely necessary for such layers to be removed before applying primer, which is advisable for all concrete coatings. Contaminated patches (oil, grease, chemicals, etc.) must be removed, for cleaning with solvents is insufficient. It is safest to hack out the diseased patches or to sandblast or flameblast the concrete because then there is no need to allow for the nature of the containment or for what has caused the weakness.

After the preparation and cleaning of the substrate it is advisable to prime the surface as soon as possible. Its purpose is to plug the capillaries and pores in the concrete, to bind back the dust and to make sure the following coat is securely bonded.

**MIXING:**

Combine 1 part A with 1 part B by volume. Mix with a Jiffy Mixer at 300-600 rpm for 3 minutes. Allow mixed components to induce or sweat-in for a minimum of 30 minutes. Only perfectly uniform mixtures of the two components in the correct mixing ratio will yield satisfactory film properties.

**Thinning:**

Material is supplied at application viscosity and normally needs no thinning. If thinning is necessary thin with Pilgrim 111 Thinner up to one pint/gallon.

**Application:**

Apply by brush, roller, or spray. Apply at 10-14 mils wet to achieve 5-6 mils DFT.

**Equipment:**

Brush: Good quality 4" wide brush with short hair bristle.

Roller: 1/8" mohair or foam roller.

Conventional Spray: DeVilbiss MBC-510 gun; E tip and 704 air cap; 3/8" ID material hose; double regulated pressure tank with oil and moisture separator.

**Work Stoppages:**

Do not allow material to remain in hoses. Release pressure from pressure tank and disconnect material hose. Thoroughly flush hose and spray gun with #5 Cleaner.

**Cleanup:**

Clean all equipment immediately after use with Pilgrim #5 Cleaner. Spray equipment requires flushing with either of these solvents. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency should depend upon amount sprayed, temperature, elapsed time including delay, etc.

**Safety:**

This product (and any recommended thinners) contains solvents and/or other chemical ingredients. Adequate health and safety precautions should be observed during all storage, handling, use and drying periods. For safe usage, user is specifically directed to consult the current "Material Safety Data Sheet" for this product. When using this product in a confined space or closed area, consult the current OSHA, or ANSI bulletins on safety requirements.

