



TECHNICAL DATA SHEET

TAMMS SLU Pumpable Underlayment

03930

CONCRETE REHABILITATION
CONCRETE

1. **DESCRIPTION:** TAMMS SLU is a cement-based underlayment formulated to level floors and provide a sound surface for floor coverings.

FEATURES AND BENEFITS

- *Self leveling*
- *Yields a smooth, level and hard surface*
- *Floor coverings can be applied after 72 hours*
- *Properties similar to concrete*
- *Pump or pour application*

APPLICATIONS

- *Repair, fill and level surfaces*
- *Interior use over properly prepared concrete, wood, plywood and other rigid substrates*

2. **COMPOSITION AND MATERIALS:** TAMMS SLU is a proprietary formulation of blended Portland cements, finely processed aggregates and chemical additives.

Material Properties at 75°F		
TEST METHOD	CRITERION	RESULT
ASTM C191		
Final Set Time, hrs		3-4
ASTM C109		
Compressive Strength, psi	1 day	1,500
	3 day	2,440
	7 day	3,800
	28 day	4,440
ASTM C78		
Flexural Strength, psi	7 day	450
	28 day	675
ASTM C190		
Tensile Strength, psi	7 day	400
	28 day	680
ASTM E84		
Flammability	Flame Spread	0
	Fuel Contribution	0
	Smoke Development	0

3. **SURFACE PREPARATION:** Surface must be dry, structurally sound, clean, free of dust, dirt, wax, oil grease, asphalt, mastic, latex compounds, adhesives, paint, gypsum based products and other contaminants.
3.1 **Concrete Surfaces** must be fully cured and free of

laitance, loose or deteriorated concrete, curing and form release compounds and other contaminants. Deeply contaminated substrates must be abraded to a clean sound surface. Patch large cracks and holes with TAMMSPATCH or suitable patching mortar. Porous surfaces should be primed with TAMMS H/P PRIMER or HORNWELD.

3.2 **Wood Surfaces** must be structurally sound and thoroughly cleaned to remove shellac, varnish, paint and other contaminants. Wood floors must be fully braced and nailed to provide a stable, non-flexible surface. Use wire mesh as an artificial key for fills over wood. Apply HORNWELD as a primer to the wood surface.

4. **SURFACE PRIMING:** Porous surfaces should be primed with TAMMS H/P PRIMER or HORNWELD. Concrete surfaces prepared after removal of cutbacks and nonporous surfaces may be primed with a water based primer such as DURAPRIME 50. A test patch to evaluate adhesion should be installed and approved. Wood surfaces should be primed using HORNWELD.

5. **MIXING INSTRUCTIONS:** Mix TAMMS SLU in a clean rotary mixer equipped with rubber tipped blades. With the mixer running, add 8 to 9 pints of potable water and slowly add the 50 pound bag of TAMMS SLU. Mix approximately one minute, long enough to provide a smooth, lump free, flowable blend similar to pancake batter. If a foam appears the TAMMS SLU is overwatered and should not be placed. For pours at depths greater than one inch, TAMMS SLU may be extended with clean, sand free, SSD pea gravel. Mix the TAMMS SLU first and then add the pea gravel to the mixed material. Reduce the water if the aggregate is damp. The addition of aggregate will reduce flowability. Mix small quantities of TAMMS SLU in a clean container using a slow speed motor and "Jiffy" mixer. Clean mixer thoroughly after each batch.

6. **APPLICATION TECHNIQUES:** Pump or pour TAMMS SLU on to the primed surface. Move and level with an underlayment spreader. TAMMS SLU will achieve initial set in 1-2 hours and may receive foot traffic after 48 hours. Protect the surface from direct sunlight and high winds to prevent drying cracking. If fills greater than one inch are required, TAMMS SLU

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may be placed in multiple lifts up to one inch in thickness. Each lift may be applied as soon as the substrate will support foot traffic.

7. **COLD WEATHER APPLICATION:** Do not apply at temperatures below 40°F. Heating the substrate, using warm water for mixing and tenting or insulating after application will assist in reaching higher strength development.
8. **COVERAGE:** One 50 lb bag yields approximately 0.42 cubic feet.
9. **CLEAN-UP INSTRUCTIONS:** To prevent buildup clean application tools and mixer with water immediately after use.
10. **CAUTIONS:** Do not featheredge, overwork, re-temper or overtrowel. Minimum placement depth 1/4 inch. Do not add any admixtures TAMMS SLU. Do not apply at temperatures below 40°F.
11. **ENVIRONMENTAL AND SAFETY PRE-CAUTIONS:** Product contains Portland cement which is alkaline on contact with water. Do not breathe dust. May cause delayed lung injury (Silicosis). IARC reports Crystalline silica may cause cancer in humans. Irritating to eyes and skin. Avoid splashing into eyes or contact with skin. In case of eye contact, flood eyes repeatedly with potable water and call a physician. **DO NOT RUB EYES.** Wash skin thoroughly after handling and before smoking or eating. Use adequate ventilation.
12. **PACKAGING:** 50 lb. (22.7 kg) DOT approved poly-lined bags.
Storage: Keep dry in protected storage.
Shelf Life: One year in protected storage.
Freight Class: Class 55.

13. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

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