

NEW

TERASIL[®] 1NS

SINGLE-COMPONENT MOISTURE-CURE
MODIFIED HYDROGEL SILANE



PFLAUMER

STOP MIXING. START BONDING.

The Evolution of 1K Hydrogel Silane Technology.

TERASIL[®] 1NS is a next-generation single-component, moisture-cure hydrogel silane technology engineered to solve one of the most persistent challenges in coatings: adhesion failure caused by moisture and poor surface bonding.

Unlike traditional systems that rely on surface adhesion, TERASIL[®] 1NS forms a penetrating, chemically bonded network within the substrate, creating a durable, integrated foundation that resists delamination, blistering, and premature coating failure.

For formulators and technical teams, this means simplified systems, faster return to service, and more reliable long-term performance – across a wide range of substrates.

Why TERASIL[®] 1NS is Different

Challenge	Traditional Coatings	TERASIL [®] 1NS
Adhesion Mechanism	Surface-level bonding	Penetrating chemical bond
Moisture Impact	Leads to failure	Resists moisture transmission
System Complexity	Multi-component	Single-component
Failure Mode	Delamination, blistering	Substrate-integrated durability
Application Sensitivity	Narrow window	More forgiving application

Formulate Faster. Adapt Easier. Scale Confidently.

TERASIL[®] 1NS is designed to integrate into your formulation strategy—not disrupt it.

- Use as a standalone coating or part of multi-layer systems
- Higher solids + expanded solvent flexibility enable customization
- Compatible with standard additives and urethane-grade solvents
- Tunable aesthetics from high gloss (-89) to satin (-10)

Recommended Film Build:

-3 mils WFT (≈1 mil DFT) for optimal penetration and performance.

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Engineered for Demanding Applications

Primary Applications

- Concrete sealers and grind-and-seal flooring systems
- Wood coatings (cabinetry, furniture, architectural finishes)
- Industrial and protective metal coatings

Secondary Applications

- Plastics, glass, and polycarbonate
- Marine and exterior environments
- Flexible substrates requiring adhesion and durability

TERASIL® 1NS provides deep penetration and resistance to moisture transmission, helping extend coating life and reduce costly failures in real-world conditions.

Performance You Can Validate

- Single-component hydrogel silane platform
- Rapid cure and recoat (< 3 hours)
- Strong substrate penetration and chemical bonding
- Excellent resistance to moisture, chemicals, abrasion, and weathering
- Long-term UV stability (non-yellowing)
- Suitable for interior and exterior applications
- Validate performance with lab and field testing

Why Formulators Are Switching to TERASIL® 1NS

- True Single-component system
- Eliminate mix ratios, pot life limitations, and application variability
- Penetrating chemical bonding
- Prevents moisture-driven failures
- Reduces blistering, bubbling, and delamination in challenging environments
- Fast return to service
- Tack-free in < 1.5 hours, through cure in < 12 hours
- Higher solids, greater efficiency
- Improved film build with fewer passes and reduced material usage
- Broad solvent compatibility
- Flexible formulation options
- Integrates into existing systems without requiring full reformulation
- Clear, pigmented, and metallic systems supported
- Built for harsh conditions
- Resistant to moisture, chemicals, abrasion, and weathering
- UV-stable, non-yellowing
- Maintains appearance and performance in exterior application

Ready to formulate with TERASIL® 1NS?

Contact our team today to request samples, TDS, or formulation support. 609-883-4610

[On Website](#)

[Email](#)



Scan to easily request product samples

THERE'S ALWAYS MORE TO SEE FROM PFLAUMER

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