TECHNICAL DATA SHEET

Shingle Shield MAX™ Roof Sealer

Professional-Grade Asphalt Shingle Preservation Coating

PROFESSIONAL USE

This product is intended for application by trained professional contractors. Read this Technical Data Sheet, the product label, and the current Safety Data Sheet before handling or application.

1. Product Description

Shingle Shield Max™ is a professional-grade, water-based roof preservation coating formulated for direct application to eligible asphalt shingles. The proprietary PosiCoat™ resin system penetrates and anchors to the shingle surface, then cures into a clear, breathable, flexible, hydrophobic film. The cured film improves water resistance, helps reduce granule erosion, and provides resistance to ultraviolet exposure, thermal cycling, microbial growth, and environmental wear.

Shingle Shield Max is a preventive maintenance product. It is not a roof-repair product, does not stop active leaks, does not correct structural defects, and does not restore flexibility that has already been lost from aged shingles.

2. Recommended Use

- Residential and commercial asphalt-shingle roofing systems that are structurally sound, serviceable, sloped, and capable of positive drainage.
- Preventive maintenance and roof-preservation applications on eligible asphalt shingles.
- Do not apply to flat roofs, unsuitable low-slope roofs, roofs that hold or pond water, or surfaces without positive drainage.
- Not intended for excessively deteriorated, structurally unsound, leaking, or end-of-service-life roofs.
- Not intended as a substitute for required repairs or roof replacement.

WARRANTY AVAILABILITY

Product suitability and warranty eligibility are separate. The current Shingle Shield Max Five-Year Prorated Limited Product Adhesion Warranty applies only to qualifying, timely registered residential installations completed by a Shingle Shield Max Authorized Installer. Review the current written Warranty for complete coverage, exclusions, registration, transfer, and remedy terms.

3. Features and Performance Characteristics

- Clear, low-gloss finish with a light sheen that does not materially alter the underlying shingle color.
- Helps reduce granule loss and surface erosion.
- Provides an added water-resistant protective layer while remaining breathable.
- UV stable and non-yellowing.
- Helps resist mold and mildew growth on the cured film.
- Cured film flexes with normal substrate movement; it does not restore flexibility to aged shingles.
- Provides added resistance to impact and windborne debris; it is not represented as preventing all hail damage.
- Water-based, low VOC, non-flammable, and VOC compliant in all 50 states and Canada.
- Cured surface may be maintained using compatible mild detergents and appropriate low-pressure cleaning methods.

4. Packaging, Storage and Shelf Life

Item	Specification
Packaging	5 US gal and 250 US gal containers
Storage temperature	40–95°F (4–35°C)
Unopened shelf life	Up to 1 year in the original, sealed container when properly stored
Opened-container guidance	Up to 6 months at approximately 77°F (25°C), provided the container remains tightly closed and the product has not frozen, hardened, separated, or become contaminated
Freeze protection	Keep from freezing. Freezing point: 32°F (0°C)

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and away from direct sunlight, extreme heat, sparks, open flame, and oxidizing materials. Keep out of reach of children. If the product appears hardened, irreversibly separated, contaminated, or otherwise abnormal, contact Vital Coat before use.

5. Technical Information

Property	Result
Component mixing	No component mixing required; stir thoroughly before application
Dilution	Do not dilute
Volume solids by weight	25%
Density	1.06 kg/L
VOC content	<25 g/L
Flash point	Same as water
Viscosity at 77°F (25°C)	Approximately 500 cps
pH	4.5–5.5
Appearance	White solution; dries clear
Transition temperature	45°F (7°C)
Water/alkali/chemical resistance	Yes, after appropriate cure

6. Surface Assessment and Preparation

Initial roof assessment

1. Perform a comprehensive roof inspection to confirm that the roof and shingles are structurally sound, serviceable, and appropriate for treatment.
2. Repair all active leaks, loose or missing shingles, flashing defects, penetrations, exposed fasteners, and structural defects before application.
3. Confirm that the roof is sloped, drains positively, and does not retain or pond water.
4. Verify with the shingle manufacturer whether application could affect any existing shingle warranty.
5. Do not apply over excessively deteriorated, loose, broken, or end-of-service-life shingles.

Cleaning and preparation

- The roof must be completely clean and free of loose debris, active organic growth, moss, lichen, mold, mildew, oils, prior water repellents, and contaminants that could interfere with penetration or adhesion.
- The professional contractor may select a shingle-compatible cleaning solution and method. Industry-standard low-pressure cleaning is recommended to reduce unnecessary granule loss.
- All cleaning solutions must be thoroughly rinsed from the roof. Residual sodium hypochlorite, bleach, detergent, or other cleaning chemicals may negatively affect adhesion, appearance, and coating performance.
- The roof must be completely dry before application. Damp substrates can cause haze, blushing, poor absorption, or loss of adhesion.

MANDATORY TEST AREA

Before full application, apply Shingle Shield Max to a small, inconspicuous area. Confirm satisfactory absorption, adhesion, drying, and visual appearance before proceeding.

7. Application Conditions

Condition	Requirement
Optimal ambient temperature	Above 50°F and below 85°F (10–29°C)
Outer recommended application limits	Do not apply below 45°F or above 95°F (7–35°C)
Liquid temperature	45–95°F (7–35°C)
Substrate moisture	Below 4% at application
Dew point	Roof surface temperature at least 5°F (3°C) above measured dew point

Condition	Requirement
Relative humidity	Maximum 85% during application and initial cure
Precipitation	Do not apply when rain, heavy dew, freezing temperatures, or water exposure are expected within 24 hours
Wind	Do not apply when wind creates a risk of uncontrolled drift or overspray

Temperatures outside the optimal range can change working time, drying, and cure development. Warmer conditions generally accelerate drying; cooler conditions slow drying and cure.

8. Product Preparation and Application

Product preparation

- Do not dilute.
- Stir thoroughly before use to ensure uniform consistency.
- Use professional spray equipment capable of maintaining consistent pressure and a uniform pattern. Tip selection, orifice size, and spray pattern remain the professional installer's responsibility based on equipment and roof profile.

Application technique

*Product should be applied with a pump sprayer. Avoid using a paint roller if possible as the roller will pick up granule from the shingle.

6. Begin at the lowest point of the roof and work upward. This allows incidental runs to move onto wet material below, helping the coating blend and reducing visible shading caused by different drying rates.
7. Hold the spray tip approximately 8–10 inches from the surface, adjusting as needed for the equipment and roof profile.
8. Spray parallel to the horizontal shingle lines using steady, even strokes across manageable sections.
9. Maintain approximately 20% overlap between passes. Do not stall or slow at the turn of the stroke, which can cause buildup, puddles, or runs.
10. Maintain constant pressure. Stop and correct equipment that drips, splatters, leaks, or produces an uneven pattern. Inspect, clean, or replace worn and partially clogged tips immediately.
11. Continue upward to a natural stopping point. Start the next section at the low side and blend it into the active wet edge of the previous section.
12. Adjust the wand angle as needed to reach shingle overlaps and creases without forcing excessive product beneath shingles.
13. Back-roll overspray only when necessary to correct localized excess and achieve a uniform appearance. Use caution to not remove granule which will cause a noticeable shading in the roof.

9. Coverage and Optional Finish Coat

Application	Coverage Rate	Status
Required first coat	150–200 ft^2/gal	Required primary application; never exceed 200 ft^2/gal
Optional second finish coat	300–450 ft^2/gal	Optional; used to improve completeness and visual uniformity

Coverage rates are based on standard three-tab asphalt shingles. Architectural shingles, irregular textures, degraded profiles, or highly absorptive surfaces may require additional material. Actual usage must be monitored during application.

Optional finish coat procedure

- Allow the first coat to dry for at least 30 minutes before applying the optional finish coat.
- Recommended recoat window at 77°F and 50% relative humidity: 30 minutes to 2 hours.
- Apply the finish coat thinner than the first coat at 300–450 ft^2/gal.
- Apply parallel to the shingle lines and offset the second-coat passes from the first-coat pattern edges to reduce visible spray transitions.

10. Drying and Cure

Stage	Approximate Time at 77°F / 50% RH
Dry to touch	Approximately 30 minutes to 2 hours, depending on application and conditions
Minimum recoat time	30 minutes
Maximum recommended recoat time	2 hours
Water resistance	24 hours

Stage	Approximate Time at 77°F / 50% RH
Full cure	72 hours

CURE PROTECTION

Dry to the touch does not mean fully cured. Do not apply when rain is expected within 24 hours. Protect the treated surface from rain, dew, heavy condensation, added water, debris, and unnecessary foot traffic during initial curing.

11. Property Protection and Overspray Control

- Cover or relocate vehicles, patio furniture, windows, siding, landscaping, pools, decks, and other property within the potential drift zone.
- Mask and isolate solar panels, skylights, roof-mounted HVAC equipment, mechanical ventilation systems, intake fans, and compressor coils.
- Use drop cloths below roof edges and use cardboard shields, spray guards, or edging tools where needed.
- Avoid heavy passes near eaves and roof perimeters that could cause runoff over fascia, gutters, soffits, patios, or personal property.
- Establish a protected staging and loading station using heavy plastic sheeting or containment trays. Do not load sprayers over unprotected driveways, patios, decks, or sidewalks.
- Keep as much product and equipment as practical contained within the trailer or utility vehicle.
- Do not flush or clean equipment near landscaping, lawns, gardens, drains, paved surfaces, or customer property.

12. Cleanup and Accidental Exposure

Application equipment

The contractor may select a cleaner compatible with the application equipment and its components. Thoroughly remove cleaner residue and allow cleaned components to dry before introducing Shingle Shield Max. Do not allow sodium hypochlorite, bleach, detergent, solvent, or other cleaner residue to contaminate the coating. Once cured in equipment, the coating may require mechanical removal.

Wet spills, drips, or overspray

Act immediately. Saturate the affected area with clean water and wipe with a clean, wet cloth. Repeat rinsing while the product remains wet. Hot, soapy water may be used on compatible surfaces. Once cured, the coating becomes extremely difficult or impossible to remove from some surfaces.

Cured material and acetone

Cured spots on compatible, untinted glass may be carefully removed with an appropriate flat-bladed window scraper held at a shallow angle. Do not use metal blades on tinted glass or plastic windows.

ACETONE WARNING

Acetone may dissolve dried or stubborn coating, but it can melt plastics, dissolve paint, damage vehicle finishes, and strip factory coatings from siding, trim, and other personal property. Always test a small, inconspicuous area and wait to observe any reaction. Use acetone sparingly and rinse the area promptly with water. When compatibility is uncertain, do not use acetone.

13. Roof Care and Maintenance

- Inspect the roof twice each year and after major storms, high winds, hail, or heavy debris impact.
- Keep valleys, gutters, and downspouts free of leaves, pine needles, moss, and other organic debris.
- Trim branches that touch or overhang the roof and address pest access.
- Repair loose tabs, damaged shingles, failed caulking, and flashing defects promptly.
- Treat early organic growth using a compatible, non-acidic roof cleaner and appropriate low-pressure methods.
- Keep ridge, soffit, and static roof vents clear and operational.
- Use guarded, non-metallic snow-removal tools where snow removal is necessary. Do not scrape the coating or granule surface.
- Never use high-pressure washing, abrasive mechanical cleaning, or harsh stripping agents on the treated roof.

14. Health and Safety

Read and follow the current Safety Data Sheet and container label before handling, mixing, or applying this product. Authorized Installers are responsible for their workplace-safety programs, employee training, fall protection, and compliance with applicable laws and regulations.

- Wear chemical-resistant safety goggles or a face shield, protective gloves, long sleeves, and other PPE appropriate to the work.
- Use OSHA-compliant fall protection and safe roof-access practices.
- Maintain a clean, organized, adequately ventilated work and staging area.
- Keep children, pets, and unauthorized persons away from the work area.
- Use extreme caution on treated surfaces, which can become slippery when wet.

First aid

Exposure	Response
Eyes	Flush with clean, flowing water for at least 15 minutes while holding eyelids open. Seek medical attention.
Skin	Wash thoroughly with soap and clean water. Remove contaminated clothing and launder before reuse. Seek medical advice if irritation persists.
Inhalation	Move the affected person to fresh air. Seek medical assistance if breathing difficulty or irritation persists.
Ingestion	Do not induce vomiting unless directed by medical personnel. Rinse mouth and seek immediate medical attention.

15. Performance Attributes

Property	Result / Description
Flexibility — ASTM D1737, 1/8-inch mandrel	Pass
High-heat resistance	Passes 230°C (446°F) at 45 psi for 1 second, face-to-face
Pencil hardness	>4H
König pendulum hardness	150 seconds
Solvent resistance	>20 IPA rubs at 1.75 mil wet-film thickness after ambient cure of less than 24 hours
Alkali resistance	Resists 4% caustic solution for 15 minutes at 110°F (43°C) after 24-hour ambient cure
Adhesion	PosiCoat™ resin technology provides chemical and mechanical anchoring to eligible roofing substrates

Laboratory film-flexibility data describes the behavior of the cured coating film. It does not mean that Shingle Shield Max restores flexibility to aged or embrittled asphalt shingles.

16. Warranty Disclaimer and Limitation of Liability

Product entity

Shingle Shield Max™ is manufactured by Vital Coat®, a registered trademark and brand of NxTech Holdings LLC.

Technical information

The technical information, recommendations, and application data in this TDS are furnished as a guide and reflect information believed to be accurate at the publication date. Field conditions, substrates, equipment, workmanship, and environmental conditions vary. The user must determine product suitability for each project and perform the required test application.

Product warranty

Product performance attributes stated in this TDS are technical characteristics and are not separate warranty promises. Vital Coat provides only the coverage expressly stated in the applicable written Shingle Shield Max Five-Year Prorated Limited Product Adhesion Warranty. That Warranty covers qualifying Product adhesion only and does not warrant Installer workmanship or every performance attribute described in this TDS.

User responsibility and assumption of risk

The user, contractor, or applicator is solely responsible for substrate evaluation, surface preparation, product handling, application, safety, containment, compliance with applicable requirements, and verification of satisfactory adhesion and appearance. Use of the product constitutes acceptance of the risks associated with handling and application, subject to the terms of the applicable written product warranty and governing law.

Limitation

To the maximum extent permitted by applicable law, NxTech Holdings LLC disclaims liability for indirect, incidental, consequential, special, punitive, or economic damages arising from product handling, storage, application, misuse, unsuitable substrates, inadequate preparation, or failure to follow current instructions. The applicable written Shingle Shield Max product warranty controls any covered product claim.

Document Control	Details
Document	Shingle Shield MAX™ Roof Sealer Technical Data Sheet

Document Control	Details
Revision date	July 21, 2026 — Alignment Revision 2
Supersedes	Revision 1 and prior editions
Manufacturer	Vital Coat®, a brand of NxTech Holdings LLC