

**SHINGLE SHIELD (RTU): HI-PERFORMANCE READY TO USE ACRYLIC COATING****TECHNICAL DATA SHEET (TDS)****Description**

The Vital Coat Shingle Shield (RTU) Ready to use Roof Sealer **(No Activator Required)** acts as a protective barrier against harsh weather conditions, extreme temperatures, mold, mildew and more to extend the life of your roof's shingles. Our environmentally friendly water-based solution quickly bonds to shingles reduce the deterioration of the granule layer while adding a durable water repellent coating aiding in extending the life of the shingles. The Shingle Shield ONE™ Roof Sealer will add a beautiful sheen to your shingles that can be easily cleaned with mild detergents and cleaners without harming the coating.

**Primary Applications**

Vital Coat's Shingle Shield (RTU) Roof Sealer is an excellent roof replacement alternative especially for excessive deterioration or end of life shingles. Shield™ Roof Sealer will work on many types of roofs:

- Asphalt Shingles
- Clay Shingles
- Concrete
- Slate Shingles

**Features/Benefits**

- Aides in extending the life of existing shingles.
- Reduces granular loss
- Provides an added water-resistant protective layer
- Mold and Mildew Resistant
- Long Lasting
- VOC compliant in all 50 States and Canada
- UV stable, non-yellowing
- Clear matt finish

**Technical Information**

Property	Result
Mix Ratio, By Volume	No Mixing Required.
Volume Solids % By Weight	Mixed: 20%
Density (KG/L)	Mixed: 1.05
VOC Content	<25 g/L
Flash Point	None
Freezing Point	Liquid/ 32°F (0°C)
Dilution	Do not dilute

**System Properties**

Property	Result
Flexibility 1/8" Mandrel - ASTM D1737	Pass
Viscosity @ 77°F (25°C)	Mix: 500 cps
pH	5.0-6.0
Appearance	Clear Solution

**Packaging**

This product is available in 1, 5 or 250 US Gal.

**Storage/Shelf Life**

Store in a cool, dry, well-ventilated area. Keep containers tightly closed and store away from heat, sparks, open flame or oxidizing materials. Extended storage at excessive temperatures may produce component separation and odorous fumes from product decomposition.

This product has a shelf life of up to one year in its original, sealed, unopened container prior to any activator or catalyst being added. If product appears to be hardened or separated contact Vital Coat before use. Keep away from extreme cold, heat or moisture. Keep out of direct sunlight. Keep out of reach from children.

Storage Temperature Min/Max 35°- 98°F

**Directions for Use****Surface Preparation:**

**General:** Surfaces must be dry, structurally sound, free of loose or deteriorated shingles, and all other contaminants and can readily accept water. Repair roof leaks prior to application of Shingle Shield ONE™ Roof Sealer. It is not a repair product for active water leaks. Follow local codes and standard best practices during application. Always verify that the application of this product does not void your current roofing warranty. Provide and use safety and fall protection when elevated or on the roof. Do not apply when rain is forecasted within 24 hours.

**Initial Roof Assessment:** It is recommended to perform a roof assessment prior to application to determine the condition of the roof and evaluate the efficacy of the use of Shingle Shield ONE™ Roof Sealer. Verify that the application of Shingle Shield (RTU) Roof Sealer will not negatively impact the manufactures warranty.

**Preparation:** – Surface preparation before applying a sealer to the roof is extremely important. Ensure that the roof is free of active organic growth and or stains from mold or mildew on the shingles. The roof should be structurally sound and free of loose or deteriorated shingles. All damaged areas should be repaired prior to application. Repair or fill leaking areas with appropriate roof caulk or sealant. The roof should be cleaned by a

professional roof cleaning contractor to prevent further deterioration of the roof. Shingles must be dry at time of application. Damp substrates could cause haziness or loss of adhesion. Ensure that there is no other water repellant treatment on the roof to provide best adhesion of the product. Always test the product on the surface to be treated in an inconspicuous area to ensure proper adherence and satisfactory appearance.

Optimal Conditions at Application	
Ambient Temperature	Above 50°F & Below 85°F*
Surface Temperature	82°-95°F*
Liquid Temperature	45°-95°F*

*Note\* The indicated application temperature is optimum. Shingle Shield ONE™ Roof Sealer can be installed at temperatures lower and higher temperatures. Cure time are impacted by temperature. Cure times are reduced with heat and increased with cooler temperatures. It is not recommended to apply in temperatures lower than 45°F and higher than 95°F.*

### Preparing Shingle Shield (RTU) Roof Sealer for Use:

Shake Contents of container to insure proper mixing prior to use.

### Application:

Using the right tools is critical to achieving the best coverage rate and sealer thickness for optimal performance. The most common method of applying the sealer is using a pump-up sprayer and roller for back rolling when necessary.

Below is recommended application techniques to achieve best results.

1. Begin the application from the low side of the roof and work your way up. This helps eliminate any streaking from excess runoff if it occurs.
2. Ensure that the pump-up sprayer maintains proper pressure to produce a consistent, even amount of product on to the shingles. Avoid using sprayers that drip or cause splatter.
3. Maintain tip about 8 to 10 inches from the surface being treated (more or less depending on the type of sprayer) and apply with steady, even strokes in a manageable area.
4. Continue this up until you reach a good break point and then begin again at the low side working each section up against the previous wet area. Continue this until entire roof is covered.
5. Allow to dry, (minimum 30 min.) and apply second coat thin coat in a perpendicular or diagonal pattern to the first coat. This will ensure the coverage in areas that may be missed or may be too thin. Always strive to achieve the recommended maximum coverage.

**CAUTION:** Always ensure that you are using the proper gear and fall protection when on your roof. Consult with a professional installer if needed.

## Coverage/Thickness

Coverage (First Coat)	200-250 ft <sup>2</sup> /gal
Coverage (Second Coat)	300-450 ft <sup>2</sup> /gal

*Note\* The indicated coverage is calculated for flat surfaces. A porous surface will require more material in order to cover the same area. Coverage on shingles varies with amount of deterioration of the substrate.*

## Curing:

Do not touch treated surface during curing. Do not add water or allow water to come in contact while curing. Protect surface from debris coming in contact with surface while drying.

## Drying/Cure Times

Pot Life	6 Months after opening @77° (25 C°)
Tack Free Time @77°F 50% RH	.5 – 1 Hour
Min/Max Recoat Time @77°F 50% RH	1-2 Hours
Dry to Touch	1 Hour
Water Resistant	24 Hours
Full Cure	72 hours

*Note\* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.*

## Clean-up

Clean all application equipment with a specified cleaner. Once the material hardens, it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

## Roof Care/Maintenance

Follow the below guidelines to maintain your Shingle Shield ONE™ Roof Sealer protected roof:

1. Perform routine inspections. - Inspections should be made at least twice a year. Once in the spring and once in the fall. Spring inspections help identify any winter damage from ice or snow. Fall inspections identify any repairs needed for the upcoming winter. Always inspect your roof after major storms that could affect the roofing system.
2. Keep your roof clean of debris -Debris on the roof will hold water and cause the shingle and sealer to deteriorate. Keep the valleys free of debris and keep your gutter and downspouts clear to ensure proper drainage.

3. Keep surrounding tree branches pruned to prevent hanging over the roof. – Tree limbs or branches touching the roof will scrub and cause damage to the sealer and the roof. This also helps prevent varmints such as squirrels from climbing on the roof.
4. Secure loose shingle tabs. –Whenever you have a loose shingle, it can be fixed by either replacing the shingle or using a little roof cement to secure it back into place. Regularly inspect any caulking and flashing to prevent leaking.
5. Maintain your roof. – Keeping your roof clean is important. It is recommended to use a professional licensed soft wash company to clean your roof. Do not allow unqualified personnel to maintain your roof. Clean your roof annually or more frequent if needed depending on your conditions. Do not use high water pressure devices or harsh chemicals to clean your roof. Water and laundry grade detergents are all that is necessary to maintain your roof.

### Precautions/Limitations

- Before handling, consult the Safety Data Sheet and Container Labels for physical and health hazard information.
- Maximum relative humidity during application and curing: 85%
- Substrate temperature must be 5.5 degrees F above dew point measured
- Humidity content of substrate must be <4% when coating is applied
- Do not apply on porous surfaces where a transfer of humidity may occur during application
- Protect from humidity, condensation and contact with water during the 24-hour initial curing period.
- Use caution when walking on a roof after sealer application. It can be slippery especially when wet. Always wear safety and fall protective gear when on the roof or elevated surface.

### Health and Safety

Always wear proper safety equipment to protect eyes and skin. Keep a neat, clean mixing area to avoid potential safety issues. Make sure to read and understand all SDS sheets and become familiar with all application procedures and best practices. Recommended for use by handyman or professionals. In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

### Performance Attributes

For coatings the cured film resists the following:

Alkaline Cleaners commonly used for cleaning.

**Heat Seal Test:** 230 Celsius (446 F) @ 45 psi for one second face to face ----- Pass  
The crosslinked and cured film exhibits high heat resistance while remaining flexible and will

not crack when applied to thin film surfaces such as Mylar. Folding the Mylar in half will not crack the film or have any loss of adhesion.

**Hard Tough Mar Resistance Film:**

Pencil Hardness-----Surpasses 6H

Konig (Pendulum)----- 163 seconds

Konig (Pendulum) addition of Silica to coating----- 173 seconds

**Cure Rate to Achieve Chemical Resistance at Ambient Temperatures:**

Formula "B" ----- 72 Hours

**Pot Life of Wet Sample:**

Formula "B" -----72 Hours

**Chemical Resistance (Ambient Cure)**

150 Double Rubs MEK ----- Pass

150 Double Rubs Acetone----- Pass

150 Double Rubs Isopropyl Alcohol ----- Pass

**Important Notice**

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