

# SHIELDPRIME BB 2S



**Energy Shield**  
Systems

## Water Resistant Acrylic Base Coat for Smooth Asphalt Surfaces

For Professional Use Only

### DESCRIPTION

- A high quality, plasticizer free, single component, water-based, 100% acrylic elastomeric coating.
- Designed to provide maximum adhesion and bleed-through resistance over smooth asphalt even in the presence of water.
- Designed to tolerate some standing water when reinforced with fabric.
- May be used over smooth or granulated substrates.
- Adheres to most Aluminized coatings (Adhesion should be verified prior to application)
- Formulated to act as a barrier to block discoloration.
- Has the unique ability to “breathe”, providing a completely watertight membrane while allowing trapped moisture to escape.

### RECOMMENDED USES

ShieldPrime BB 2S is designed as a base coat for application over smooth surface asphalt such as built up and modified bitumen substrates. ShieldPrime BB 2S may be used in low areas and waterways when used in combination with reinforcing fabric. With a suitable top coat, it is an exceptional protective system for asphaltic membranes. Check with your ESS representative for top coat recommendations.

Property	Test Method	Result
<b>Tensile Strength</b>	<b>ASTM D-2370</b>	<b>100 psi ±25</b>
<b>Elongation:</b>	<b>ASTM D-370</b>	<b>980% ± 25</b>
<b>Perms</b>	<b>ASTM D-1653</b>	<b>3</b>
<b>Solids Content by Weight</b>	<b>ASTM D-370</b>	<b>65% ± 2</b>
<b>Solids Content by Volume</b>	<b>ASTM D-1644</b>	<b>50% ± 2</b>
<b>Density</b>	<b>ASTM D-370</b>	<b>11.4 lbs gal</b>
<b>VOC</b>	<b>Method 24</b>	<b>&lt;50 g/liter</b>
<b>Flash Point</b>	<b>ASTM D-1310</b>	<b>&gt;212 ° F</b>
<b>Temperature Limit</b>		<b>0° F to 185° F</b>
<b>Low Temp Flexibility</b>	<b>ASTM D-522</b>	<b>Passes 180° F Flex over 1/8 Mandrel @ =30° F</b>
<b>Cure Time</b>		<b>24 hours depending on Temp. &amp; Humidity</b>
<b>Dry Time</b>		<b>5 Hours at 75°F @ 50% m</b>

### COLORS

Ivory – Satin Flat

### SURFACE PREPARATION

**General:** Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, peeling coating or other foreign matter.

### PACKAGING/SHIPPING INFORMATION

#### CONTAINER SIZE

55 Gallon drum (208.2 liters)

5 Gallon pail (18.9 liters)

#### SHIPPING CLASS

Class 55

Class 55



## Water Resistant Acrylic Base Coat for Smooth Asphalt Surfaces

### APPLICATION

This product may be brushed, rolled or sprayed on a clean, dry surface. In waterways or low areas material should be applied as follows:

- Apply ShieldPrime BB 2S at a rate of 1 gallon/sq.
- Immediately embed a layer of Energy 272 fabric in wet coating.
- Immediately apply a further application of ShieldPrime BB 2S at a rate of 1 gallon/sq.
- Allow to cure for at least 24 hours.

For details see Equipment Recommendations at the end of this sheet. It is critical that this be allowed to cure for a MINIMUM of 24 hours and even longer in cool or high humidity environments.

**Note: Blistering will occur if top coat is applied over base coat that is not completely dry** If any contamination of a thoroughly cured surface occurs, it must be washed with a chemical cleaner before applying subsequent coats. Hand application can be done with squeegee and roller.

### ENVIRONMENTAL CONDITIONS

Product should not be applied when the ambient temperature is below 32° F or the temperature will fall to within 5 degrees of the dew point within 6 hours after application. Do not apply in late afternoon if high humidity exists, it may cause high moisture condensation on the surface overnight.

### PONDED WATER

- ESS warranties do not cover damage due to ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).

### LIMITATIONS

Surface must be clean and dry. ShieldPrime BB 2S is water based and requires evaporation to cure. Material must cure for at least 24 hours. Low temperature and high humidity will slow the cure process. In these situations, even longer cure times will be necessary. **Note: Blistering will occur if top coat is applied over base coat that is not completely dry** Do not apply ShieldPrime BB 2S if there is any moisture on the substrate or risk of precipitation. If applied where there is a risk of vapor drive, such as cold storage and refrigerated tank application there must be a suitable vapor barrier. ShieldPrime BB 2S is not intended as a thermal Barrier.

### SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to SDS and product labels. More resources are available at [polyurethane.org](http://polyurethane.org), [sprayfoam.org](http://sprayfoam.org), [energyshieldsystems.com](http://energyshieldsystems.com) or by contacting ESS directly.

### EQUIPMENT

Minimum Requirements:

#### Brush

- Synthetic Filament

#### Roller

- 1 ¼ nap roller

#### Spray

- Standard Contractor gun-no filters
  - Pressure 3000 psi at 2.5-3.0 gal/min
  - Tip .017-.029 reversible, self-cleaning with 40-50° fan angle
  - 12-inch wand extension recommended
- 3/8 "line for rated pressure

To the best of our knowledge all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. Used must contact Energy Shield Systems Company to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Energy Shield Systems. We assume no responsibility for coverage, performance or injuries resulting from use. Liability if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY ENERGY SHIELD SYSTEMS EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.