



BCI Polymers

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## ReVamp ACP SR Solar Reflective Asphalt Resurfacer

### DESCRIPTION

ReVamp® ACP SR Asphalt Resurfacer is a heat reducing, highly solar-reflective, polymer composite material designed for resurfacing, restoration and preservation of existing asphalt pavements. ReVamp ACP SR is suitable for broom textured, trowel textured, or spray applied finishes on driveways, roads, parking lots and airport pavements. Engineered to reflect the sun's infrared rays, it's light grey color provides a like-new appearance of concrete pavement.

### FEATURES AND BENEFITS

- Reduces pavement surface temperature
- Uniform color
- Easy to install
- Highly versatile allowing for broomed, textured or trowel finish
- Slip-resistant surface
- Advanced polymers cross-link with asphaltic binder for superior adhesion and bond strength
- Freeze/Thaw stable

### WHERE TO USE

- Parking lots
- Playgrounds
- Amusement Parks
- Airport Pavements
- Driveways
- Roads

### SUITABLE SURFACES

- Sound, stable and clean asphalt pavements

ReVamp ACP SR is designed to adhere tenaciously to existing asphalt pavements. Successful installations require a thorough and complete bond between the substrate and the new wearing surface. Adequate bonding can only be achieved through proper preparation of the substrate surface. The surface must be clean, sound and free of oil, grease, dirt or other contaminants which might interfere with adhesion. An easy test for suitability is to place water on the substrate- if the water beads up or is not easily absorbed, the surface is not adequately prepared.

### SURFACE PREPERATION

**Raveling Asphalt:** Surfaces exhibiting raveling from freezing, oxidation, chemical attack or erosion must be mechanically prepared to provide a solid, sound base.

**New Asphalt:** ReVamp ACP SR can be installed to new asphalt pavement after a minimum curing period of 90 days.

**Thermoplastic:** Thermoplastic compounds will limit the ability of ReVamp ACP SR to properly bond with the substrate. Remove thermoplastic according to manufacturer's recommendations. After removal, a trial "mockup" installation should be conducted to confirm suitable bond strength.

**Sealcoat and Slurry:** All loose and flaking material must be removed prior to installation of ReVamp ACP SR. Sealcoat or slurry that cannot be removed via 3,000 psi pressure washing is generally suitable for overlay with ACP SR.

**Contaminated Asphalt:** All oil, grease, dirt, paint and dust must be completely removed. Mechanical methods are preferred; however, chemical methods may be equally successful if diligent care is exercised to ensure complete removal of not only the contaminant but also any residues of the cleaner itself. IN NO EVENT SHOULD DEGREASER PRODUCTS CONTAINING SODIUM LAURAL SULFATE BE USED. Whichever method is employed, the surface must be cleaned down to sound, solid, uncontaminated substrate.

**Joints and Cracks:** Contraction joints and cracks in the existing asphalt substrate must be properly repaired prior to applying ReVamp ACP SR. Fill any joint or crack with a suitable joint sealant to protect against intrusion by water, incompressible materials or other foreign matter. In the event a joint is inadvertently filled or bridged by ReVamp ACP SR, honor the joint by saw cutting the joint as soon as the product has cured enough to walk on. Seal the sawcut joint with appropriate joint filler.

**Birdbaths and Low Spots:** Birdbaths and depressions should be filled to level with adjacent pavement with ReVamp ACP SR prior to resurfacing the area. For depressions greater than ½" the product may be extended with pea gravel (25 pounds per 50-pound bag).

### PACKAGING

ReVamp ACP SR is available in 50-pound paper bags and 3,000-pound bulkbags (super sack).

### STORAGE

Store in a cool, dry, indoor facility protected from moisture. Protect from pressure or high temperatures during storage due to the risk of caking. Do not stack pallets more than two high. Storage time should not exceed six months from time of delivery.

### MIXING

Max. 4 quarts water per 50 pounds

1. Into a clean mixing container, pour 3 to 3 ½ quarts cool, clean potable water for each 50 pounds of material.
2. Slowly add ReVamp ACP SR while stirring.
3. With a low to medium speed drill (300-800 RPM) equipped with a "Jiffler" or "H" style mortar mixing paddle, blend at low speed for 1-2 minutes ensuring a lump-free consistency.
4. Once a homogenous, lump-free consistency has been achieved, add the withheld portion of water to attain desired workability. Blend for an additional 1-2 minutes.
5. Allow material to slake for 2-3 minutes and stir again for 1 minute.
6. Mixing ratio must remain consistent. DO NO OVERWATEWR THE MATERIAL.
7. Do not retemper or add more water. Additional water will alter cured product's compressive strength, flexibility and may result in color inconsistencies.

### Pigments and Color Packs

Pigments and color packs should be added to the mixing water and thoroughly dispersed prior to adding dry ReVamp ACP SR material.

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**PRODUCT APPLICATION**

Methods include hand trowel, hopper gun, plaster pump and squeegee

1. Follow Best Practices Installation Guidelines as established by ACI and ICRI
2. Application temperature range is 40°F to 95°F (5°C to 35°C). Do not install if temperatures are forecast to fall below 40°F (5°C) within 24 hours of placement. If precipitation is imminent or forecast within 12 hours of placement, operations should be suspended until an acceptable window of opportunity is available.
3. Before application of ReVamp ACP SR prepare the substrate to a SSD condition by lightly misting the asphalt pavement. **DO NOT APPLY ON STANDING WATER.**
4. General application thickness should be no greater than 1/16" (1.5mm) per lift.
5. **Application techniques:**  
**Immediately after mixing:**
  - a. **Trowel:** Pour material onto the surface and trowel to a smooth, uniform finish. Broom or finish to desired texture.
  - b. **Squeegee:** Pour material onto the surface and squeegee to a smooth uniform finish. Broom or finish to desired texture.
  - c. **Broom:** Pour material onto the surface and broom to desired texture. **DO NOT** wet the broom or apply additional water to the ReVamp ACP SR surface- doing so will alter the cured material's strength and flexibility and will result in color inconsistencies.
  - d. **Hopper Gun:** Using a hopper gun equipped with a large orifice, spray with oil-free compressed air (12-20) PSI. Nozzle should be parallel to the surface at approximately 2 feet (.61m). Using a circular spray pattern, cover 80% to 100% of the surface. Broom, trowel or finish to desired texture.
  - e. **Plaster Pump:** Use only pumps designed for high-viscosity, fluid cementitious materials. Apply material according to the guidelines and recommendations of the pump manufacturer.

**CURING**

ReVamp ACP SR Asphalt Resurfacer is self-curing, allow to air cure after application. Care should be used when weather conditions impart variables, which may cause the overlay to dry out too quickly. High heat, intense sunlight and especially windy conditions may be detrimental to proper curing. Attempt to minimize application during such harsh conditions by working during cooler hours.

- Avoid walking on the newly installed surface for at least one hour, depending on temperature and humidity conditions.
- Protect from pedestrian traffic until material has cured to a minimum strength of 400 PSI
- Protect from vehicular traffic until material has cured to a minimum strength of 1,000 PSI.

**CLEANUP**

Clean tools with plain water as soon as possible. ReVamp ACP SR hardens quickly. Cured material must be mechanically removed.

Dispose of excess product in accordance with local, state and federal requirements. **DO NOT** dispose of material into sewer systems or storm water collection systems as ReVamp ACP SR cures underwater.

**COVERAGE RATE**

Typical coverage is 70-80 square feet per 50 pounds of material.

**STATEMENT OF RESPONSIBILITY**

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith.

<b>PERFORMANCE PROPERTIES</b>	
<b>Performance Standard</b>	
Pot Life*	10 to 40 Minutes
Open Time*	10 to 25 Minutes
Application Temperature Range	40°F to 95°F (5°C to 35°C)
Color	Light Gray
Solar Reflectance ASTM C-1549	>28
Compressive Strength (7 Day) ASTM C-579	>5,000 PSI
Compressive Strength (28 Day) ASTM C-579	>6,500
Flexural Strength (28 Day) ASTM C580	>1,800
Tensile Strength 28 Day) ASTM C-307	>800 PSI
Shear Bond Adhesion (7 Day) ASTM C882	1,150 PSI
Shear Bond Adhesion (28 Day) ASTM C882	1,850 PSI
Resistance to Deicing Chemicals ASTM C-672	No Effect
Freeze-Thaw Resistance ASTM C-666	No Effect
Abrasion Resistance ASTM C-779	<1 Gram
Flammability	Nonflammable
*Dependent upon temperature, humidity and wind conditions	