SILPRO

RAECO® R-100™

Single Component
Uniform
Premixed Blend
Polymer-Modified
Lasting Surface Adhesion

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R-100™ is single component topping compound consisting of a uniform, premixed blend of Portland cements and graded washed silica aggregates with polymer modification to promote lasting surface adhesion, for renovation and new construction. **R-100**™ can be applied from a feathered edge to 1/2" (12.7 mm), for thickness greater than 1/2" use appropriate aggregate. **R-100**™ can be used for horizontal, interior and exterior use, a sealer or coating is recommended when used for a wearing surface. **R-100**™ contains no gypsum, chlorides, ferrous metals or corrosive agents.

Use R-100™ For

- Repairing floors and concrete slabs
- Underlayment for all finished floor products
- Horizontal applications, may be coved up walls
- Exterior applications for walkways & ramps
- Filling holes, cracks and spalled areas
- Areas exposed to medium-duty loads
- Leveling or creating pitch to drains
- Areas with varying weather cycle
- Rained out or freeze damaged slabs
- Elevation transitions

Test Data

Compressive Strength: (ASTM C109)	28 days	4200 psi
Flexural Strength: (ASTM C348)	28 days	1800 psi
Tensile Strength: (ASTM C-190):	28 Days	900 psi

The values presented are typical averages and are intended to serve as a guide only.

Horizontal application

Fire Retardant

Non-toxic

Fuel Contribution: 0

Flame Spread: 0

Smoke Development: 0

Surface Preparation

Surfaces to be covered must be structurally sound, clean and free of dust, oil, grease, sealers, curing compounds, laitance, release agents or other surface contaminants. Where possible, cut vertical shoulders at edges to accommodate repair. For smooth surfaces, we recommend mechanical abrasion to achieve an acceptable surface profile. The cleaning and preparation method selected depends on both the sub-floor material and its condition. Acid etching is not recommended. For optimum adhesion, dampen surface with water and remove any puddles before application of product. **R-2000**™ may be used as a bonding medium.

Mixing

R-100™ is mixed by adding clean water at a rate of approximately 4 - 5.5 quarts (3.80 - 5.23 liters) per 50 lb. sack. Water should be added to the mixing container first, then the **R-100**™, followed by the appropriate aggregate if necessary. Using a mixing paddle (a whip type is recommended) with a low speed drill (400 to 500 rpm), mix thoroughly (2 to 3 minutes) until the powder has been completely dispersed and the mix has acquired a smooth homogeneous texture. Do not add more water once **R-100**™ has started setting up. The pot life of the mix averages about 35 minutes and working time 35 to 45 minutes, depending on the temperature. It is recommended to mix only the amount of **R-100**™ that can be applied within that amount of time.

Application

Apply the **R-100**™ mixture on the prepared surface. Should a broom finish be desired, do so right away. Do not add or spray water onto the surface for finishing, it may cause the surface to blister or spall. Rough spots or trowel marks may be shaved or sanded off the surface after a few hours, using a medium to fine grit sandpaper. Sanding should be accomplished after an appropriate time of curing has occurred. When **R-100**™ is going to be a wearing surface, a sealer or coating is recommended. Allow an adequate curing time before applying a sealer or coating. Before installing any finished floor products, make sure to follow the adhesive manufacturer's recommendations.

When **R-100**™ is to be applied on surfaces other than concrete (i.e., wood, metal, terrazzo, etc.), consult SILPRO's Technical Service Department for recommended preparation, bonding, and application procedures.

Limitations

- **R-100**™ should only be applied over substrates that are between 40° and 90° F. (4.4° and 32.2° C.)
- Do not apply in the rain, and do not allow to freeze within 24 hours of application.
- When applying **R-100**™ to thickness greater than 1/2″ (12.7 mm), bulk the mix with the appropriate type and amount of aggregate (refer to Coverage Section).

Packaging

50 lb. bag (22.68 kg.)

Approximate Coverage

50 lb. bag: 50 sq. ft. (4.6 m2) @ 1/8″ (3.18 mm)

Bulked with #8 Silica sand
50 lb. bag: 18.75 sq. ft. (1.73 m2) @ 1/2″ (12.7 mm)

Bulked with 3/8″ pea gravel
50 lb. bag: 9.06 sq. ft. (.83 m2) @ 1″ (25.4 mm)

For Thickness:
1/2″ to 1″ use #8 silica sand @ 25 lbs. (11.25 kg) per bag
1″ & up use 3/8″ pea gravel @ 25 lbs. (11.25 kg) per bag

Shelf Life

2 Years

Guarantee

Please call Silpro LLC for copy of guarantee.

Caution!

SILPRO offers products that may contain cement, latex, epoxy, and other chemicals. Please review the Safety Data Sheet before the use of this product.

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