



R-50

LATEX MORTAR OVERLAYMENT

Technical Data and Installation Instructions

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DESCRIPTION

RAECO R-50 is a two component, concrete repair and topping compound consisting of a uniform, premixed blend of portland cements and graded washed silica aggregates with a liquid latex modifier to promote lasting surface adhesion, for renovation and new construction. R-50 can be applied from feathered edge to any depth, for thickness greater than 1/2" (12.7 mm) use appropriate aggregate. R-50 should be used for horizontal surfaces. Suitable for interior and exterior use, a sealer or coating is recommended when used for a wearing surface. R-50 provides excellent freeze-thaw resistance against the penetration of deicing salts and other contaminants. RAECO R-50 contains no gypsum, chlorides, ferrous metals or corrosive agents.

- Areas with varying weather cycle
- Corrosion-resistant overlays

PACKAGING

50 lb. bags (22.5 kg.)
 (40 bags per pallet)
 1.2 gallon container (4.55 liters)
 5 gallon pail (18.9 liters)
 50 gallon drum (189.5 liters)

APPROXIMATE COVERAGE

50 lb. bag: 50 sf (4.64 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)

PROPERTIES

	7 Days	28 Days
Compressive Strength, PSI (ASTM C-1439)	4710	5560
Tensile Strength, PSI (ASTM C-190)		850
Flexural Strength, PSI (ASTM C-256)		1700
Shear Bond, PSI (Dow Test Method)	650+	

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

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

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. 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, mix R-50 with the latex to a slurry consistency and brush thoroughly into the area to be covered. RAECO R-2000 may also be used as a bonding medium. DO NOT USE R-50 LATEX AS A BONDING AGENT.

- Flame Spread: 0
- Fuel Contribution: 0
- Smoke Development: 0
- Compatible with most floor adhesives
- Smooth or broom finish achievable
- Horizontal application
- Fire Retardant
- Non-toxic
- Corrosion Resistant
- U.S.D.A. approved

AREAS OF USE

- Parking deck repairs and overlays
- Horizontal & vertical applications
- Exterior applications for walkways & ramps
- Warehouse & industrial repairs or overlays
- Areas exposed to heavy-duty loads
- Leveling or creating pitch to drains
- Rained out or freeze damaged slabs

MIXING

RAECO R-50 is mixed by adding R-50 latex at a rate of approximately 1 gallon (3.79 liters) of latex for each 50 lb. bag of dry powder. More or less latex may be added to obtain the desired consistency, but do not exceed 2 gallons (7.58 liters) of latex for each 50 lb. bag of R-50. The latex should be added to the



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mixing container first, then the R-50 powder, followed by the appropriate aggregate (when used). 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 latex binder once R-50 has started setting up. The pot life of the mix averages about 30 minutes and working time 30 to 45 minutes, depending on the temperature. It is recommended to mix only the amount of R-50 that can be applied within that amount of time.

APPLICATION

Apply the RAECO R-50 mixture with a trowel or straight edge, trowel to desired texture, on the prepared surface. Should a broom finish be desired, do so after placement. Do not add or spray latex onto the surface for finishing, it may cause the surface to spall. Rough spots or trowel marks may be sanded off the surface, using a medium to fine grit sandpaper after R-50 has setup. Sanding should be accomplished no later than 24 hours after application. Allow an adequate curing time before applying a sealer, by using the R-50 latex or a water based concrete sealer (surface or penetrating). When R-50 is going to be a wearing surface, a sealer or coating is recommended.

When R-50 is to be applied on surfaces other than concrete (i.e., wood, metal, terrazzo, gypsum underlayments, etc.), consult RAECO's Technical Service Department for recommended preparation, bonding, and application procedures.

LIMITATIONS

RAECO R-50 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 before curing has taken place. When applying R-50 to thickness greater than 1/2" (12.7 mm), bulk the mix with the appropriate type and amount of aggregate (refer to Coverage Section of Data Sheet).

WARNING

RAECO R-50 contains portland cement and silica sand. Use of a dust respirator, safety goggles and rubber gloves are recommended. In case of contact with eyes, immediately flush with water and consult a physician. Avoid hazards by following all precautions found in the Material Safety Data Sheet (MSDS), product labels and technical literature. Please read this information prior to using product.

WARRANTY

RAECO Specialty Cements, LLC. warrants that if its products prove to have manufacturing defects and RAECO is notified of such within six months from the date RAECO shipped the products, RAECO will replace the defective products F.O.B. factory. Such product replacement shall constitute the sole and exclusive remedy for any claim under this warranty. RAECO does not authorize anyone, including RAECO Representatives, to make any statements that supersede, modify or supplement the information provided on its printed literature or package labels without written confirmation from the RAECO Technical Service Department. Any installations proceeding without this confirmation, or improper installations of the products will void this warranty. Under no circumstances will RAECO be liable for economics, special, incidental, or consequential damages or losses of any kind whatsoever arising out of or occasioned by selection, use installation or replacement of this product.

GUIDE SPECIFICATIONS: Consult RAECO, Inc. for R-50 & Stained R-50 Guide Spec (4 pages) latest edition.

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