**POLYMER MODIFIED STRUCTURAL REPAIR**  
**Product No. 1241-25**

**PRODUCT DESCRIPTION**  
QUIKRETE® Polymer Modified Structural Repair is a polymer-modified and shrinkage-compensated rapid setting, high strength repair material designed for vertical and horizontal structural concrete repairs.

**PRODUCT USE**  
QUIKRETE® Commercial Grade Polymer Modified Structural Repair consists of special fast-setting hydraulic cement, graded sands and other proprietary ingredients and can be expanded with up to 10 lb (4.5 kg) of gravel. The material can be used for partial-depth repairs and can be sculpted to match the contour of existing concrete surfaces.

**SIZES**  
QUIKRETE® Polymer Modified Structural Repair - 20 lb (9.1 kg) pails

**YIELD**  
A 20 lb (4.5 kg) bag of QUIKRETE® Polymer Modified Structural Repair will yield approximately 0.18 cu ft (5.1 L) of material.

**TECHNICAL DATA**  
**APPLICABLE STANDARDS**  
ASTM International  

**PHYSICAL/CHEMICAL PROPERTIES**  
QUIKRETE® Polymer Modified Structural Repair®, when tested in accordance with ASTM procedures, provides typical results as listed in Table 1.

**TABLE 1**  

<table>
<thead>
<tr>
<th>Typical Compressive Strength (ASTM C109 Modified)</th>
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<tbody>
<tr>
<td>3 Hours</td>
<td>3,000 psi (20.6 MPa)</td>
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<tr>
<td>24 Hours</td>
<td>4,000 psi (27.5 MPa)</td>
</tr>
<tr>
<td>7 Days</td>
<td>5,000 psi (34.4 Mpa)</td>
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<tr>
<td>28 Days</td>
<td>6,500 psi (44.8 Mpa)</td>
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**INSTALLATION**  
**SURFACE PREPARATION**  
- Remove all spalled and unsound concrete from area to be repaired.  
- If rusty reinforcing steel is present, it must be abrasive blasted to remove rust. Wear proper personal protective equipment. Remove enough material to completely expose the reinforcing steel.  
- Large vertical or overhead patches deeper than 2 in (50mm) should contain reinforcing steel. If none is present, new steel should be inserted using appropriate techniques.  
- Dampen with clean water and remove standing water before patching.

**MIXING**  
1. **WEAR IMPERVIOUS GLOVES, such as nitrile.** Mix by hand or mechanically for a minimum of 3 minutes using a standard mortar mixer.  
2. Add 3.5 pt (1.7 L) of clean water for each 20 lb (9.1 kg) pail. Add the powder to the water and mix to a stiff gel-like consistency. If mix is too thick, add water sparingly to reach the desired consistency.  
3. If the Structural Repair is to be used as a repair material for repairs deeper than 2 in (50 mm), up to 10 lb (4.5 kg) of clean, high quality -1/2 in (-13 mm) gravel may be added to mix.  
4. QUIKRETE® Polymer Modified Structural Repair obtains high bond strength without the use of bonding adhesives or acrylic additives.  
5. Do not mix more material that can be placed in 15 minutes.  
6. Do not re-temper with additional water.

**PLACING**  
- Do not apply as a coating. Use for patches less than 2 ft² (0.19 m²).  
- QUIKRETE® Polymer Modified Structural Repair should be trowel applied to a damp surface.  
- Apply a thin layer with heavy trowel pressure and then go back and build up to the desired thickness.  
- After initial set, the material may be trimmed and shaped to match the contours of the existing patch area.
CURING
No special curing procedures are required under normal conditions. In hot, dry or windy conditions keep the patch covered and damp for at least 24 hours, or apply QUIKRETE® Acrylic Concrete Cure and Seal (No. 87300) in accordance with package instructions.

AGGREGATE EXTENSION
For deep patches, QUIKRETE® Rapid Road Repair® may be extended 50% with up to 25 lb (11.3 kg) of minus ½ in (13 mm) coarse aggregate per 50 lb (22.6 kg) bag. At 50% extension, the typical yield will be 0.6 cubic feet (17 L). Use well graded, good quality coarse aggregate, minus ½ in (13 mm) diameter, meeting ASTM C 33. When extended 100% with this coarse aggregate, each 100 lb (45.3 kg) of 50/50 blend will yield approximately 0.73 cubic feet (20.6 L). Extension by 100% will affect set time and reduce compressive strengths compared to data presented in Table 2. Performance and yield will be affected by the characteristics of the coarse aggregate utilized and water addition. Adjust water to achieve a slump of about 3 in to 5 in (75 to 125 mm).

PRECAUTIONS
Do not use if temperatures are below 40 °F (4 °C) or are expected to go below 32 °F (0 °C) within a 24 hour period. Use cold water in hot weather or hot water in cold weather to achieve desired product temperature.

WARRANTY
The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies’ option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Rd., NE, Suite 1300, Atlanta, GA 30305
(404) 634-9100 • Fax: (404) 842-1425

* Refer to www.quikrete.com for the most current technical data, SDS, and guide specifications