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Tremco, Incorporated  
3735 Green Road  
Beachwood, OH 44122

RESEARCH REPORT: RR 25425  
(CSI #07100)

Expires: November 1, 2009

Attn: Wes Hensley  
(216) 266-5531

Local Representative:  
Gary Wilson  
(805) 527-4098

**GENERAL APPROVAL** - Renewal / Revision- Paraseal GM for below-grade wall and slab waterproofing and gas membrane.

## DETAILS

Paraseal GM is a composite-sheet waterproofing and gas membrane that combines a 60 mil layer of high density polyethylene (HDPE) with expandable quality bentonite granular. Paraseal GM comes in 4' by 24' standard rolls or 8' by 170' and 17.5' by 170' rolls upon request.

### **This approval is subject to the following conditions :**

1. Complete details for the membrane system are submitted for plan check and a building permit is obtained.
2. Installation of the materials shall be in accordance with the manufacturer's written instructions and as specified herein. A copy shall be kept at the job site.
3. Installation shall be performed by an installer approved by the manufacturer.
4. All membrane joints shall have a minimum 5-inch seam lap, sealed in accordance with the manufacturer's specifications.

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5. Testing for leaks at membrane lap seals and other membrane joint seals including penetrations through the slab shall be performed in accordance with the manufacturer's quality control manual. A copy shall be at the job site.
6. Protection for the membrane shield shall be in accordance with the manufacturer's written installation instructions and approved by the engineer of the record.
7. Prior to placing the concrete slab over the membrane, the membrane installer shall certify the membrane to be installed and tested in accordance with the manufacturer's specifications and to be free of leaks.
8. The membrane shield is not be placed under the building footings.
9. For gas membrane installation, continuous inspection by a registered deputy inspector certified by Tremco, Incorporated, and registered in accordance with the requirements specified in section 91.1704 of the Los Angeles Municipal Code for special inspection is required.
10. All seams shall be tested with a vacuum box to the satisfaction of the special inspector.
11. The bentonite cannot get wet and activate before compaction is placed on or against membrane.

## DISCUSSION

The revision is to change condition #9.

Waterproofing approved is based on Research Report 24709.

Approval allows the use of the product on a bentonite layer with pneumatically applied concrete (gunite or shotcrete), is based on the test report by southern California Soil and Testing, Incorporated.

Addressee to whom this Research report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

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This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

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RR25425/wp8.0  
R10-18-2007  
2H6/1402.4/7104/7105