

TECHNICAL DATA

VAPORGARD

PRODUCT #211

PRODUCT DESCRIPTION

VaporGard #211 is a 100% solids, non-shrink epoxy specifically formulated to penetrate into the smallest fissures and voids sealing the concrete, effectively reducing the amount of MVTR (moisture vapor emission rate). VaporGard #211 is to be installed to properly prepared concrete where moisture vapor drive is suspected, or been identified through approved testing methods.

Vaporgard #211 has been designed for interior use only.

Packaging: Kit sizes available are 1, 3 and 15 gallons

ADVANTAGES

- Reduces MVTR (Moisture Vapor Transmission) by 94%
- Superior adhesion to properly prepared concrete - ASTM D7234 - Coating failed at 525 PSI
- Independent testing results available upon request
- Cost effective 100% solids formulation
- Low viscosity to allow for deep penetration
- Excellent adhesion to properly prepared concrete substrates
- Low odor during application & cure-can be applied in occupied facilities
- VOC compliant with ALL U.S. regulations

LIMITATIONS

- Do not apply at less than 12 mils or 134 square feet per gallon
- Do not thin this product with solvents
- Do not broadcast sand into this product
- Do not apply this product on moist or wet surfaces

SURFACE PREPARATION

Apply **VaporGard #211** only to clean and sound substrates. Mechanical preparation by means of shot-blasting or diamond grinding to an ICRI CSP 2/3 is recommended (see ICRI Guideline No. 03732 for additional details).

TYPICAL PHYSICAL PROPERTIES

% Solids	100%
VOC Content	0 g/L
Viscosity	600-800 cps
Hardness	80-85 Shore D per ASTM D2240
Working Time	15 minutes at 70 Degrees F
Dry to Touch	6-8 hours at 70 Degrees F
Recoat Time	7-23 hours at 70 Degrees F
Mix Ratio	2:1

PRODUCT APPLICATION

Apply **VaporGard #211** with a squeegee, brush, or high quality non-shed roller. Only mix the amount of product that can be properly applied within 15 minutes. Due to the low viscosity of **VaporGard #211** make sure the entire surface has been coated, and dry spots will need to be re-rolled leaving a glass-like finish.

Once thoroughly mixed this product should be placed on the surface and NOT LEFT IN THE MIXING BUCKET.

PRODUCT HANDLING

Avoid contact of uncured material to skin and eyes, proper PPE should be used during the handling of this product. Clean skin with soap and water. Tools and equipment should be cleaned with a solvent such as xylene or lacquer thinner. Refer to the Safety Data Sheet for additional information

LIMITED WARRANTY

Thermal-Chem Corporation warrants its product to be of good quality and will replace any product proved to be defective. **THERMAL-CHEM CORPORATION MAKES NO WARRANTY OR GUARENTEE EXPRESS OR IMPLIED INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

In the event THERMAL-CHEM CORPORATION determines a product to be defective it will at its sole discretion, either replace the product or refund the purchase price. All claims must be made in writing within one-hundred and eighty (180) days from the date of shipment. No claim will be considered without **written notice or after the specified time interval.**

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ThermalChem – #211 VaporGard
NTL Project #24-1238(A)
Page 4 of 7

TEST RESULTS

ASTM F1869 – Moisture Vapor Emission Rate

Specimens: Six 12 x 12 x 4-in concrete specimens were wet cured 7 days, then removed from the water tank. Three of the specimens (reference) were immediately put into test. Three other specimens were shotblasted to achieve a CSP 3 surface profile then coated with #211 VaporGard. The coated specimens were cured 24 hours before testing.

Coating Material: #211 VaporGard
Application: 133 sf/gallon

Results:

A) #211 VaporGard

Moisture Vapor Emission Rate **1.3 lb/1000 ft²/24 hrs**

Specimen 1	1.4 lb/1000 ft ² /24 hrs
Specimen 2	1.2 lb/1000 ft ² /24 hrs
Specimen 3	1.2 lb/1000 ft ² /24 hrs

X) Reference (uncoated)

Moisture Vapor Emission Rate **21.7 lb/1000 ft²/24 hrs**

Specimen 1	22.7 lb/1000 ft ² /24 hrs
Specimen 2	21.6 lb/1000 ft ² /24 hrs
Specimen 3	20.9 lb/1000 ft ² /24 hrs

Moisture Vapor Emission Rate Decrease Over Reference **94.0%**