



6178 NETHERHART ROAD, MISSISSAUGA, ONTARIO, CANADA L5T 1B7  
TEL (905) 564-6100 • FAX (905) 564-6110 • TELEX 06-968053

DATA

## PERMACRETE 35- COATING

1. **PRODUCT NAME:** PERMACRETE 35, Coating

2. **MANUFACTURER:**

Permaquik Corporation  
6178 Netherhart Road  
Mississauga, Ontario, Canada L5T 1B7  
Tel: (905) 564-6100 Fax: (905) 564-6110

3. **PRODUCT DESCRIPTION:**

Permacrete 35 is a polymer-modified, two component cementitious coating for use on concrete, mortar, and masonry. Easily applied with brush, roller or spray. This fine textured, abrasion-resistant coating is used for protection against de-icing salts, for waterproofing and dampproofing with a decorative appearance even as a thin wearing surface.

### ***Uses:***

- Use as a thin wearing surface on horizontal decks, slabs, patios, driveways and other substrates exposed to foot traffic and pneumatic-tire traffic.
- Use coating alone or as a protective, uniformly decorative finish over Permacrete-repaired concrete.
- Use as a sealer coat for Permacrete Broadcast System.
- Use above and below grade on concrete, masonry, and mortar.
- Use as waterproofing coat for kitchen, bathroom, utility, balcony and swimming pool ... etc.
- Breathable system allows use on horizontal, vertical and overhead surfaces, both interior and exterior.
- Use as a protective coating to resist salt intrusion, anti-efflorescence.
- Use as a protective coating for waterproofing, dampproofing, and improving resistance to weather.
- Use to waterproof areas to be submerged – pools and ponds.

### ***Advantageous characteristics are:***

- Bond strength insures superior adhesion.
- Easy to use, labour-saving system.
- No mix water needed.... liquid co-polymer, Component A trigger special blend of cements, fillers and admixtures.
- No batching... factory-proportioned kit insures consistent composition, consistent high quality.
- Easily applied to clean, sound substrate.
- Increases resistance to de-icing salts.
- Good freeze / thaw resistance.
- Not a vapor barriers
- Not flammable
- Conforms to ECA/USPHS Standards for surface contact with potable water.



#### 4. TECHNICAL DATA:

|                                  |  |                        |                               |                        |            |                  |                      |                          |                      |                      |
|----------------------------------|--|------------------------|-------------------------------|------------------------|------------|------------------|----------------------|--------------------------|----------------------|----------------------|
| SHELF LIFE:                      | Component A – 1 year in original containers.<br>Protect from freezing.   |                        |                               |                        |            |                  |                      |                          |                      |                      |
|                                  | Component B – 6 months in original container.<br>Keep dry.   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| STORAGE CONDITIONS:              | Component A – Store above 50°F. Protect<br>from freezing.  |                        |                               |                        |            |                  |                      |                          |                      |                      |
|                                  | Component B – Store above 50°F. Keep dry.  |                        |                               |                        |            |                  |                      |                          |                      |                      |
| COLOURS:                         | Concrete Grey or White.  |                        |                               |                        |            |                  |                      |                          |                      |                      |
| MIXED RATIO:                     | Component A to Component B –<br>approximately 1:1.647 parts by weight.   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| SPECIFIC GRAVITY:                | Component A – 1.02   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| APPLICATION THICKNESS:           | 8 – 16 mils per coat depending on substrate.   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| TENSILE STRENGTH:                | ASTM D-412-92 2.4N/mm <sup>2</sup>   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| ABRASION RESISTANCE:             | ASTM D-968   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| ELONGATION:                      | ASTM D-412 250% AT BREAK >270%   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| CRACK BRIDGING:                  | 2mm  |                        |                               |                        |            |                  |                      |                          |                      |                      |
| BOND STRENGTH:                   | PASS   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| SHORE A HARDNESS:                | ASTM D-2240 (60 ± 5)   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| WATER-VAPOUR TRANSMISSION:       | ASTM-D-1653 0.02gm/hr/ft. <sup>2</sup>   |                        |                               |                        |            |                  |                      |                          |                      |                      |
| APPLICATION TIME (WORKING TIME): | Approximately 1½ hours after mixing the two<br>components. Application time is dependent<br>on temperature...it is shorter in high<br>temperatures, longer in cool.  |                        |                               |                        |            |                  |                      |                          |                      |                      |
| TACK-FREE TIME:                  | (73°F and 50% RH) : Less than 30 minutes.  |                        |                               |                        |            |                  |                      |                          |                      |                      |
| RECOAT TIME:                     | (73°F and 50% RH) : Allow 2 hours<br>minimum.  |                        |                               |                        |            |                  |                      |                          |                      |                      |
| COVERAGE:*                       | <table><tr><td></td><td><u>Porous Surface (Block)</u></td><td><u>Smooth Concrete</u></td></tr><tr><td>First coat</td><td>100 sq. ft./gal.</td><td>150-200 sq. ft./gal.</td></tr><tr><td>Second coat, if required</td><td>150-200 sq. ft./gal.</td><td>150-200 sq. ft./gal.</td></tr></table> |                        | <u>Porous Surface (Block)</u> | <u>Smooth Concrete</u> | First coat | 100 sq. ft./gal. | 150-200 sq. ft./gal. | Second coat, if required | 150-200 sq. ft./gal. | 150-200 sq. ft./gal. |
|                                  | <u>Porous Surface (Block)</u>  | <u>Smooth Concrete</u> |                               |                        |            |                  |                      |                          |                      |                      |
| First coat                       | 100 sq. ft./gal.   | 150-200 sq. ft./gal.   |                               |                        |            |                  |                      |                          |                      |                      |
| Second coat, if required         | 150-200 sq. ft./gal.   | 150-200 sq. ft./gal.   |                               |                        |            |                  |                      |                          |                      |                      |

\*Approximate ..... based on field experience.



## 5. INSTALLATION:

### *Surface Preparation:*

Remove all deteriorated concrete, dirt, oil, grease, other bond-inhibiting materials from surface. Should surface to be coated require repair, patch with Permacrete 15, 20, 25 or 30, depending on thickness of repair required. Preparation work should be done by sand-blasting, water-blasting, or other appropriate mechanical means. Substrate should be surface dry prior to application.

### *Product Mixing:*

All mixing should be done mechanically using a drill and paddle or similar equipment.

Pour all of Component B into mixing container. Then pour approximately ½ Component A into mixing container. Mix to consistency of uniform paste. No lumps. Care should be taken to scrape down sides of mixing container at this time. When a smooth, uniform paste is obtained, add remainder of Component A and mix till uniform consistency. Sides should not be scraped down once all of Component A has been added.

NOTE: Should smaller quantities be required, be sure to mix components in correct ratio.

### *Application:*

Apply coating to prepared surface by either brush, roller or spray.

Substrate should be surface dry prior to application. For hot surface in direct sun, wet down, then allow surface to dry prior to application.

Two coats are recommended for waterproofing and protective-coating applications. Recommended thickness per coat is 0.75mm – 1mm.

Apply thoroughly mixed coating generously with loaded brush or roller. Always finish off with light strokes blending back into coated area for uniform appearance.

Curing not required. If necessary, protect newly applied coating from rain. To prevent freezing, cover with insulated material.

### *Clean-up:*

Remove Permacrete 35 from tools and mixing equipment with water. Cured material can only be removed mechanically.

## 6. LIMITATIONS:

Minimum ambient and surface temperatures 45°F and rising at time of application. Thickness of application is 0.75mm - 1mm coat. Greater thickness might result in cracking. Apply on clean, sound substrate. Substrate must be surface dry. Do not apply when rain is expected. Coating must be mixed to a uniform consistency. For spray application, coating must be screened prior to application.



Lumps may be broken up with gloved hand. Concrete grey and tan colors may show water marks due to uneven wetting in service. For application in submerged areas, allow 3 days for cures before putting into service.

**7. PACKAGING: Two component, factory-proportioned kit.**

- Component A – White colored emulsified co-polymer, 3.11 gallon in a 3½ gal. plastic pail, weight of 26.45 lbs.
- Component B – Blend of selected cements, admixtures, and graded fillers; multi-wall bag, weight of 43.55 lbs.

Total weight off 70 lbs. Yield is approximately 5 gallons.

***SHELF LIFE:***

Up to 18 months in sealed containers.

**Caution:**

Contains cement and a polymer which may, in certain cases, cause skin irritation. Cleanliness is required. In case of skin contact, or contact with eyes, wash thoroughly with water. If eye contact occurs, consult nearest doctor.

All data given in this bulletin are based on our own research and research of others. They are believed to be accurate, however, no guarantee of accuracy is made. Product described is sold without warranty except conformity to specifications and on condition that purchaser shall determine suitability for their particular purpose.

