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## SHORT FORM APPLICATION INSTRUCTIONS Ram Tough 250 Double Membrane (DM) System

**Follow all of the application instructions for the Ram Tough 250 SM System (attached) except as noted herein:**

Following all of the deck preparation and priming procedures, install all base flashings throughout the days work area, following standard flashing details and requirements.

After the flashings are installed, tightly, starting at the drains or low points, install the first layer of fluid Ram Tough 250 (RT 250) membrane at a thickness of 90 mils, in a width of approximately 42-44 inches wide. As quickly as possible, while the RT 250 is still warm, install Poly•Felt 125 VP (Poly•Felt) reinforcement into the tacky, warm membrane. Standing off to the side, use a broom or a squeegee, press Poly•Felt into the RT 250 using care not to create wrinkles or fish-mouths. If the sheet is not set straight and begins to run off a true straight line, cut the roll and reset it, overlapping the end sheet by 12 inches. In cooler weather, the workability time frame of the RT 250 will lessen in relationship to the temperature and the deck temperature.

As the first roll is run out, return to the same starting point and install the second ply of reinforcement, overlapping the first or underlying roll by 3-4 inches with hot RT 250 and set the new roll with minimum 2 inch lap over the preceding Poly•Felt ply.

**All Poly•Felt 125 VP must have rubberized asphalt membrane under and over it.**

**In no place shall the Poly•Felt touch Poly•Felt.**

Follow-up with successive plies, working up the slope. All laps shall be with the flow of drainage, not against it.

Following the installation of the Poly•Felt, re-coat all base flashings and the field of the deck with hot RT 250, 125 mils thick (1/8 inch) carrying RT 250 up and over all flashings as required by standard details. All Poly•Felt shall have the second RT 250 membrane installed over it each and every day. Do not leave Poly•Felt exposed overnight unnecessarily.

Poly•Felt fibers do not absorb water but the air spaces (interstices) between fibers do retain water. If the Poly•Felt becomes wet it can result in poor bonding or delamination. Wet Poly•Felt must be allowed to dry 100 percent before proceeding.



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If it is necessary to walk over the completed membrane prior to the installation of the protection course, use Ram "Release Agent" spray or a very light broadcast of cement dust to create a bond break

Flood testing may be completed prior to the installation of protection course or insulation. Electric Field Vector Mapping tests should be completed prior to the insulation application, allowing any repairs necessary to be easily completed.

The general principles of waterproofing are generally a good guide for normal conditions, however, if any unusual conditions or problems arise please call our toll free line for technical assistance - (800) 647-0100 or [info@barrettroofs.com](mailto:info@barrettroofs.com).

The basic "secret" for any good installation is the absence of moisture and dust during application - "CLEAN & DRY" - performing adhesion checks every hour during installation and that all flashings are installed in a tight, void-free manner.

### **Grid Method Guidelines**

RT 250 weighs approximately 10 lbs/gallon. 6 gallons will provide 90 mils on a 100 Sq ft, perfectly flat surface.

Hence, two 5 gallon pails, carrying 3 gallons each, (60 lbs net weight of RT 250), dumped into a 42 inch wide by 28 ft long chalked grid, on a perfect flat surface, will provide 90 mils of RT 250 coverage.

A more conservative and realistic grid would be 3.5 ft wide by 25 ft long with two pails carrying 3 gallons each, (60 lbs approximate weight of RT 250) dumped into the grid, is a fair measure to obtain the required 90 mil minimum thickness on the average concrete deck.

The 125 mil top coat, in the same size grid, requires 8.34 gallons or about 3 pails.

It is also prudent to count the number of boxes consumed each day and compare that with the square footage installed each day. Each box can be calculated as 30 lbs which should provide a completed 20 square foot at 215 mils average, plus or minus whatever flashings are installed.