



Tile & Stone Installation Systems

Calculation for the mortar filling on uncoupling/heating membranes

Is there any difference in the amount of mortar needed with an uncoupling or heating membrane?

Yes. In determining the quantities of mortar to order, it is important to know the added amount you will need for coverage with these membranes, and make your calculations accordingly. The *Mapeheat™ Membrane* requires more mortar for coverage than the *Mapeguard® UM* membrane, for example.

What is approximate coverage from one 44-lb. (20-kg) bag of *Keraflex™ Super* as filling for *Mapeheat Membrane*?

60 to 70 sq. ft. (6.03 to 6.50 m²)

What is approximate coverage from one 44-lb. (20-kg) bag of *Keraflex Super* as filling for *Mapeguard UM*?

125 to 135 sq. ft. (11.6 to 12.5 m²)

Before ordering, what sort of calculations should be made for the installation of the complete system?

The following example illustrates this process, with *Keraflex Super* thin-set mortar, a 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) trowel for installing the *Mapeheat Membrane*, plus filling the membrane and installing the tiles with a 1/2" x 1/2" x 1/2" (12 x 12 x 12 mm) trowel.*

In this example the total floorspace requiring coverage is 250 square feet (23.2 m²). To

determine how many bags of *Keraflex Super* is needed to install tile over *Mapeheat Membrane*, we need to add the amounts from three separate calculations:

- Installation of the *Mapeheat Membrane* with a 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) trowel (with *Keraflex Super*):
 - at 100 sq. ft. (9.29 m²) per-bag minimum coverage, we will need 2.5 bags.
- Filling of the *Mapeheat Membrane* (with *Keraflex Super*)
 - at 60 sq. ft. (5.57 m²) per-bag minimum coverage, we will need 4 bags.
- Installation of tiles (with *Keraflex Super*)
 - at 50 sq. ft. (4.65 m²) per-bag minimum coverage, we will need 5 bags.

Total = 12 bags of *Keraflex Super* for 250 sq. ft. (23.2 m²) of floor with *Mapeheat Membrane*.

For additional helpful tips and product information, visit www.mapei.ca or contact MAPEI's Technical Services Product Support Team.

*NOTE: The amounts of coverage for each trowel are available on all thin-set mortar Technical Data Sheets.

When going over membranes, check the thin-set data sheet for proper water ratios, as additional water may be required.

