



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 to make your calculations accordingly. *Mapeheat™ Membrane* requires more mortar for coverage than *Mapeguard® UM* membrane, for example.

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

60 to 70 sq. ft. (5.57 to 6.50 m²)

What is approximate coverage for 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 *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:

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

Total = 12 bags of *Keraflex Super*

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

When going over membranes, check the Technical Data Sheet of the thin-set mortar for proper water ratios, as additional water may be required.

**Note that the amounts of coverage for each recommended trowel are available on the Technical Data Sheets of MAPEI's thin-set mortars.*

