Coverage rates

Promat FENDOLITE® MII is a single package factory controlled pre-mix based on vermiculite and Portland cement. Promat manufacture and supply the Promat FENDOLITE® MII passive fire protection coating system for fire protection of steel structures and storage vessels in the global oil, gas, petrochemical and power industries. The Promat FENDOLITE® MII product is only available to Promat Recognised Contractors that have been trained in its correct mixing, application and use.

Of particular interest / importance is the calculation or estimation of material quantities required for a project, and the following guidance can be given.

The provided coverage values are theoretical and given for guidance only. These theoretical values are determined by Promat under laboratory conditions. Therefore, Promat cannot be held liable for a Promat Recognised Contractor's usage of the product on site. Actual / practical coverage achieved on site by a Promat Recognised Contractor may be more or less than these theoretical values.

Yield calculation

Yield per tonne of product can be estimated at 62 m² for a thickness of 25 mm, in case of minimum wastage. The yield in practice can vary significantly.

NOTE: The nominal density of Promat FENDOLITE® MII is 775kg/m³ (+/- 15%), at equilibrium moisture content in moderate climates. This value includes water that chemically reacted with the cement in the bagged material as well as water that remains present in the pores in equilibrium conditions, and therefore does not correspond with the yield estimation.

Variation in practice

Reasons that coverage may vary include (but are not limited to):

- Normal variation in applied density. Water quantity, mixer type and mixing time, delivery hose length, nozzle size and air pressure during spraying all affect placed density.
- Accuracy of the applied thickness. A small variation in applied thickness over a large area can also significantly affect apparent coverage rate.
- Allowance for "solid fill" application method on small sections.
- Actual spray area versus originally contracted.
- Wastage estimation, wastage reduction on site by application method, workmanship.
- Trowelled surface or smooth surface.
- Orientation of the protected surface.

The information given in this Application Procedure is based on practical experience, independent and other tests and represents, in Promat's opinion, the best technical advice available. Since the products are applied under circumstances beyond our control, Promat can accept no direct or consequential liability, whether in contract or in tort, for the interpretation of such recommendations and reserves the right to modify the recommendations as necessary. Should it be unclear as to the meaning of any of the instructions given above, or if further information is required, please consult Promat.

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