

Porcelian has a very low water absorption <0,05% which can make it difficult to install in the standard method, water can become trapped between the mortar and Porcelain, which when it freezes can cause the flags to pop.

Porcelain is used widely in countries with similar climates to ours so we have looked to them for guidance and have found a solution that we have found to be 100% successful which is listed below. We appreciate that this installation method is more costly than traditional methods so we have also provided a minimum requirement to reduce the risk of issues if a traditional installation is used. When using the minimum requirement method special attention should be paid to the prevailing weather conditions of the area and installation in heavy rain and/or frosty conditions should be avoided.

Recommended Installation Method

Sub - base

Constructed like normal but with a permeable sub base material like Type 3

Laying Course (Bedding Mortar)

20mm of Sopro DM 610 Drainage Mortar (a water permeable mortar)

Bonding/Priming Slurry

Sopro HFS 748, applied to the back of the flag and placed into wet drainage mortar.

All of these items are available to buy direct from Smet Building products, for more information and prices you can contact them on info@smetbuildingproducts.co.uk

Jointing (10mm)

Polymer jointing material

Minimum Requirement

Sub - base

100mm Type 1 Sub-base material compacted.

Laying Course (Bedding Mortar)

35 - 40mm deep 4 to 1 full mortar bed.

Bonding/Priming Slurry

Sopro HFS 748 (Other bonding slurries can be used) applied to back of the flag and installed into the mortar immediately.

Jointing (10mm)

Polymer based jointing material

Note: - The minimum requirement method is designed to reduce the chance of Porcelain not adhering correctly to the mortar bed and lifting when bad weather occurs it is not however a guarantee this will not occur.