Claymaster Data Sheet

Claymaster is the original compressible expanded polystyrene product, used when foundations need to be protected against ground heave. As an integral part of the Cordek solution to ground heave, Claymaster is used to protect against lateral heave, typically on the inside face of piled ground beams or deep trench fill foundations.

Claymaster consists of low density expanded polystyrene, coloured pink for easy identification on site, and available in a variety of different thicknesses. The appropriate thickness of the product required is determined by the predicted lateral movement, in line with the NHBC guidance detailed in this data sheet.

Key Features

- Reduces the lateral force transmitted to the structure
- BBA certified
- Meets the NHBC's technical standards
- Wide range of sheets sizes and thicknesses to suit most applications
- Available as a pile collar to aid installation of Cellcore

Installation

For piled ground beams, Claymaster is generally only required on the inside face of external ground beams, as indicated in the NHBC guidelines. Typically the material will be placed against the face of the beam after striking of the formwork and prior to backfilling. If a permanent formwork system is used to cast the beams then the formwork should be dimensioned such that the Claymaster will fit inside the former prior to concreting.

For use in deep trench fill applications the excavation width should accommodate the width of the foundation and the thickness of the Claymaster required. Care should be taken to ensure that the Claymaster is adequately supported so that it remains in the correct position during the placement of the concrete.

Typically, the excavation will be founded 500mm below the zone of influence, and the Claymaster installed in accordance with NHBC requirements, i.e. 500mm above the bottom of the trench and on the inside face of the excavation.

For further information on the full range of Cordek's Ground Heave Solutions, please contact the Cordek technical team on 01403 799600, techsupport@cordek.com or consult our website at www.cordek.com.

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Storage & Handling

All products are delivered in a polythene wrapping and are clearly labelled. Both packs of Claymaster and individual sheets can be manually handled and offloaded upon delivery, taking into account any site specific manual handling regulations.

Due to the relatively light nature of the product, all packs of Claymaster should be weighted down or secured should they be stored outside prior to installation. No further storage requirements are needed as the product is unaffected by both UV light and water.

Product Sizes

Standard sheet size*: 2400mm x 1200mm
Standard sheet thickness*: 50mm, 75mm and 100mm

*Further thicknesses and sheet sizes are available upon request, please contact the Cordek technical team on 01403 799600 for further information

Claymaster Sheets

When determining the correct thickness of Claymaster required the information provided in Table One details the guidelines provided by the NHBC:

Table One

Shrinkage Potential	Predicted lateral movement NHBC recommended void	Claymaster thickness for 'Equivalent Void'
Low	Zero	Zero
Medium	25mm	50mm
High	35mm	75mm

* If the shrinkage potential is more than High contact our Technical Services team.

Claymaster, and all other compressible polystyrenes, do not compress significantly until loads exceed 20 kN/m^2. A load of 40 kN/m^2 is needed to produce 50% compression of the product. For this reason Claymaster is not recommended for use under ground floor slabs, piled beams or pile caps.

Claymaster Pile Collars

Claymaster Pile Collars are designed to aid the installation of the Cordek Cellcore panels by fitting securely around the pile and providing a square edge for the Cellcore panels to be butted against.

Each pile collar is generally manufactured to suit the width of the ground beam and the thickness of Cellcore panel that it is being used in conjunction with. The void within the pile collar is designed to suit the diameter of the pile, with each pile collar available in two segments to aid installation.

Sizes:
Standard pile collar thicknesses*: 85mm, 155mm and 220mm

Standard pile collar dimensions (plan)*
450mm x 450mm
450mm x 600mm
500mm x 500mm
600mm x 600mm
600mm x 800mm
700mm x 700mm
800mm x 800mm
900mm x 1200mm
1200mm x 1200mm

*Further thicknesses and plan sizes are available upon request, please contact the Cordek technical team on 01403 799600 for further information.

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