

TECHNICAL DATA SHEET

Cement'in C+G Basecoat

Product Code: ESPS/C&G-BC



SPS ENVIROWALL PROMOTES THE RE-USE –RECYCLING AND RESPONSIBLE DISPOSING OF ALL OF ITS PRODUCT RANGE, VIA THE LOCAL ENVIRONMENTAL RECYCLING SCHEMES. NEW TYPE PLASTIC COMBINATION BAGS ALLOW IMPROVED RECYCLING OF EMPTY BAGS.

Characteristics

Cement'in C+G is a lime/cement based reinforcing and levelling basecoat coat used in combination with reinforcement mesh. It is water-repellent and offers excellent impact resistance. Applied directly to prepared masonry and blockwork substrates as part of a Render-Only system. Suitable for hand & spray application.

Technical Data

Cement'in C+G is a factory mixed blend of Portland cement, lime, graded river sand, additives and admixtures.

Grain size	0 to 2.0mm
Dry density (powder)	± 1700 kg/m ³
Compressive strength	≥ 4 MPa
Bond strength (on brick)	> 0.3 Mpa
Vapour permeability coefficient μ	10-15
Average setting time	± 90 min
Consumption	± 17 kg/m ² per 10mm thickness

Note: These estimates take no account of wastage and may vary according to the type of surface involved, an allowance must be made for uneven and misaligned substrates when ordering materials.

Substrate

Suitably prepared – Brick, Block Work and Masonry. Note:- Certain substrates such as Aerated Blocks are unsuitable for the application of C&G basecoat, please consult SPS Envirowall for a suitable basecoat for these block types.

All surfaces must be sound, clean, dry and free of any material which may impair adhesion. Do not apply to shiny surfaces. Scaffolding must be independently tied to allow for uninterrupted application. Any faults in the structure, particularly those which may lead to moisture penetration must be rectified. Poorly keyed surfaces or substrates of uneven or high suction should be prepared with primer. Mask around the areas where material is to be applied. Masking tape must be removed before the material has dried out. Beads and expansion joints should be included as required by the substrate and carried through all applied materials. Suitable specification clauses, including specifications for difficult or mixed substrates are available from our technical department. Highly porous substrates must be primed with SPS Envirowall primer.

If in doubt about the substrate please consult our Technical Department for advice

Application

Cement'in C+G should be mixed with clean water at a rate of approximately 3.5 - 4.5 litres per 25kg bag using a suitable drill with whisk attachment and mixed until the desired consistency is achieved. Also suitable for spray application. Do not mix with binders and additives.

Note: If Cement'in C+G Base Coat has started to harden DO NOT remix or reused.

Please refer to project technical specification for exact product thicknesses. To avoid dampness and discolouration rendering should be avoided below DPC or within 150mm of ground level.



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Apply Cement'in C&G basecoat to a thickness of between 10-20mm as an overall thickness and ruled level inclusive of the 1-2mm Slurry coat layer to the sound substrate using a stainless steel trowel. Comb through with a tooth trowel to achieve a consistent depth of base-coat. Average thickness per coat is 12 – 15mm. To achieve a thickness up to 20mm two passes of basecoat will need to be applied, Apply Cement'in C&G basecoat to a thickness of between 10-20mm as an overall thickness and ruled level inclusive of the 1-2mm Slurry coat layer to the sound substrate using a stainless steel trowel. Comb through with a tooth trowel to achieve a consistent depth of base-coat. To achieve a thickness up to 20mm two passes of basecoat will need to be applied, the first pass up to a maximum of 13mm with a key applied to the surface for the second layer of 7mm. The outer layer is to incorporate the mesh. Float specified reinforcing mesh into the top of the base-coat render, ensuring a minimum horizontal and vertical overlap of 100mm.

After the application of the main reinforcing mesh, bed on with basecoat 300 x 500mm minimum pieces of reinforcing mesh diagonally across corners of all wall openings. Bed on internal corner reveal reinforcing strips of mesh (the same depth as the reveal) to all window and door openings; ensure the reinforcing strips return from the corner of the reveals 150mm.

Then apply a 1-2mm slurry coat of basecoat which requires to be sponged flat ready to receive a thin coat finish or requires a key ready to receive dash, brick slips and brick effect render finishes.

Cement'in C+G should be applied in a one-coat operation using a hawk and trowel or suitable spray equipment and finished as required. For a plain finish rub up in a normal way as the render starts to pick up ready to receive a finish. Note: To provide the highest resistance to cracking we would always recommend the incorporation of reinforcing mesh. Open time of the mixed material is 1 hour at 20°C.

Certain types of masonry substrates may require the wet basecoat to be mechanically fixed through the mesh to ensure adherence of the system. Examples of these cases are Existing Rendered/Dashed Masonry, Engineering bricks, Ceramic bricks, Painted Masonry. Mechanically fixing back through into the masonry removes the risk of the new render delaminating from the surface of the existing substrate. If unsure please consult SPS Envirowall for advice.

The basecoat must be allowed to dry and shrink, allow approximately 1 day drying time per mm thickness in good drying conditions prior to applying the primer and topcoat. The surface must be flat, clean, and dry and free from dust, grease, chalking or anything else likely to prevent a good bond, prior to applying SPS Envirowall finishes.

Provisions must be taken to protect the basecoat against torrential rain and also from drying too quickly. Where possible avoid working in direct sunlight. Covering the façade and scaffold as a precaution will help prevent the basecoat from drying prematurely in strong winds.

Do not apply when the substrate or the environmental temperatures are below 5° C or higher than 30 ° C. Tools and equipment must be cleaned with water immediately after use. Surrounding building parts, such as windows, window-sills etc. must be properly protected before application.

Storage

The product must be stored in dry conditions at temperatures above 5°C, shelf life is 9 months from date of manufacture.

Certificates/approvals

Identification

Cement'in C+G basecoat is supplied 25kg Plastic bags; palletised (48) bags and shrink wrapped. Do not mix with binders and additives.

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Special Information

Disposal

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Do not empty contents into the ground, water courses or drains. Check local landfill requirements for correct disposal. See the SPS Envirowall Limited Health & Safety data sheet on this product for information regarding the safe disposal of this product.

The information supplied in this Technical Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Our application recommendations, whether verbal, written or as graphics, are given to the best of our knowledge and the state of the art. Information about values, quantities etc. are based on approximate figures. The recommendations do not constitute a legally binding warranty of quality. In particular no liability claims may be based on these recommendations; the provisions of the product liability law remain unaffected.

The recommendations do not release the purchaser from his own duty to test the product or from his own responsibility, and in particular they do not release the purchaser from compliance with the relevant technical guidelines, regulations, DIN and laws. Publication of a revised version of this technical information sheet due to technical progress invalidates all older versions of this document.