



TECHNICAL DATA SHEET

Retrobase High Polymer Basecoat

Product Code: ESPS/HP-BC



SPS ENVIROWALL PROMOTES THE RE-USE –RECYCLING AND RESPONSIBLE DISPOSING OF ALL OF ITS PRODUCT RANGE, VIA THE LOCAL ENVIRONMENTAL RECYCLING SCHEMES.

Characteristics

Retrobase basecoat is a polymer modified reinforcing and levelling basecoat coat used in combination with reinforcement mesh. Vapour permeable, weather resistant and offers excellent adhesion. Applied directly onto the face of the insulation as a part of SPS Envirowall External Wall Insulation. Can also be applied direct to prepared masonry and blockwork substrates as part of a Render-Only system. Suitable for hand & spray application.

Technical Data

- Flexural strength >3.9 N/mm²
- Compressive strength >7.3 N/mm²
- Fresh mortar density 1757 (g/l)
- Water retention 98%
- Application temperature 5°C to 25°C
- Service temperature range -20°C to +80°C
- Mixing ratio approx. 4.5 litres of water to 25kg powder
- Open time 50-60 minutes at 20°C
- Shelf life 12 months in cool dry area
- Bag Sizes 25kg

Consumption

7.2kg per m² approx. 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 or Block Work, Insulation (Mineral Wool, Phenolic, EPS, and ICF).

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

Retrobase should be mixed with clean water at a rate of approximately 4.5 litres per 25kg bag using a suitable drill with whisk attachment, mix for 5 minutes, allow standing for 2 minutes then remix. This process allows the chemical additive to dissolve and activate. Also suitable for spray application.

Note: Retrobase High Polymer Base Coat may stiffen on standing. Remix the product to regain a workable consistency but do not add any more water.



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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.

Direct to Insulation - Apply Retrobase basecoat to a thickness of between 4-6mm as an overall thickness, 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. 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.

Render-Only application – Retrobase 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. Specification Clauses relating to this product can be found in NBS Section M20 Rendering. BS 5265 Code of Practice for External Rendering and BS 8000-10 must be followed.

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.

The basecoat must be allowed to dry and shrink for approximately 2 days 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.

Do not apply when the substrate or the environmental temperatures are below 5° 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

Retrobase basecoat is supplied 25kg paper sacks; palletised (40) bags and shrink wrapped. Do not mix with binders and additives. The product must be stored in dry conditions at temperatures above 5°C, shelf life is 12 months from date of manufacture.

Certificates/approvals

Identification

All SPS Envirowall products are factory blended, tested and packaged to quality control procedure in accordance with BS EN ISO 9001 series.

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Special Information

Disposal

RECYCLING AND RESPONSIBLE DISPOSING OF ALL OF ITS PRODUCT RANGE, VIA LOCAL ENVIRONMENTAL RECYCLING SCHEMES.

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.