IBBTherm
External Wall Insulation System

It's time to start the insulation season!

Choose IBB Therm - the crack free thin coat render!

Spring has come to the UK for good, what is evidenced by not only warmer days but also increasingly more common scaffolding around houses. Better weather allows investors to commence long-delayed this year insulation and render projects. The perfect solution for such projects is IBB Therm External Insulation and Rendering System. The thermal insulation of facades using insulation and thin-layer render systems is becoming an increasingly popular way of finishing exterior walls - both in new builds and for renovation projects.

IBB Therm products are based on a special combination of ingredients that allow for easy application while maintaining excellent adhesion to the substrate. Adequately configured additives regulate the time that products take to work, and enable easy application on every type of surface especially crucial in case of rendering, where the desired structure must be obtained without risk of premature binding.

Features of IBB Therm render includes:

- resistant to deposition of dust and dirt on the surface of the facade,
- easy to clean, removing stains and dirt,
- resistant to washing,
- provide effective protection against weather conditions,
- resistant to the destructive effect of UV rays,
- resistant to water penetration, which quickly flows along the surface of the facade,
- resistant to washing out protective substances,
- easy to apply

Application of insulation and thin coat render system on the existing facade

In the first step, ensure that existing external wall- the substrate is clean and dry, free from substances that reduce adhesion. If the existing plaster or paint is swollen and not fully adhered to the wall, it has to be removed. Any wet areas (e.g. as a result of damage to the flashing) might lead to the development of damp. After removing the cause of moisture, such fragments should be dry cleaned with wire brushes and then saturated with a fungicide solution.

Highly absorbable substrates, such as old plasters or aerated concrete walls, should be protected with absorbent agents. It happens that contractors give up the priming and apply thin-layer plaster directly on the layer of an adhesive with the mesh. This results in the improper tying of the thin-layer plaster, grey glue marks and an uneven façade surface. To avoid this, an insulation material cohesion test is recommended. After 4 to 7 days, the mineral wool sample or polyester is removed mechanically from the substrate. If the sample is torn, the substrate has adequate strength. Separation of the whole sample together with the adhesive mortar layer signals that the substrate should be cleaned again.

To achieve the optimal level of thermal insulation the standard facade wool boards or polystyrene panels are the best solutions. We recommend using polystyrene panels with IBB Therm system.

When applying the thin coat render to a particular facade such as timber frame or external wall insulation, use a high polymer base coat with mesh reinforcement. Apply the base coat using a steel trowel to a thickness about 1.5mm-2.0mm thick per layer. To ensure the surface is levelled and thickness is consistent apply the second layer of the base coat. Application of render top coat is straightforward for those experienced. Once the base coat has dried, apply a layer of primer. When the primer is dry, what takes about a day, the next step is to lay the layer of top coat. Ensure the render is mixed correctly and prepared. Apply the render top coat using a steel trowel to a thickness about 1.5mm-2.0mm thick per coat. It is recommended to start the application from the top of the building moving downwards. Moreover, to keep the same colour of finished plaster, it is best to finish one wall at one go.

Flatten the render with your trowel until the first set is achieved. The render will skin over once the curing starts and it is essential to remove the excess render and to texture it before this begins. Remove any excess of render with the trowel. The topcoat layer will be of approximately 1.5mm. This will take the whole system between 5.0mm-7.0mm. Always ensure there are no drips or trowel marks on the render. Float the area again with an acrylic trowel and do not apply the top coat render to a wet base coat, as this will lead to bubbles and cracking. IBB Therm system once appropriately installed on the facade it will not crack thanks to the reinforcement in the form of a mesh. We recommend using qualify installers to achieve the best finish.

More information about IBB Therm you will get at www.ibb.uk/therm