



Case study Education

Architect: RMJM

Contractor: BAM Construction

Products Specified: SikaTack® Panel Adhesive

“This was a new system to us, which was specified by the architect. Although we hadn’t used it before, we were very impressed by its ease of installation and would welcome using this system again.”

**James Preston, Construction Director
at Pace Installations**

Joint Sealing & Elastic Bonding

A revolutionary adhesive system that enables cladding panels to be seamlessly fixed to buildings, without the need for unsightly mechanical fixings, has been specified for a state of the art new sports hall at Buckingham New University, forming part of a massive £200 million campus redevelopment.

SikaTack® Panel Adhesive, developed by global building product manufacturer Sika®, was specified by project architects RMJM as a proven way of securely and invisibly attaching the Trespa cladding to the outside of the sports hall. This has enabled the creation of a clean and uninterrupted façade.

The project forms the first phase of a 10-year development plan at the University in High Wycombe. Completed in time for the new term, the complex known as ‘The Gateway’, includes a gym, sports laboratory and treatment rooms as well as a main sports hall.

Working for main contractor, St Albans based BAM Construction, Pace Installations completed the cladding work using the SikaTack® Panel Adhesive to efficiently fix the cladding panels to the structure.

A primary fixing method, the system eliminates the need for additional fixings and has been engineered to be applied on site. Having undergone rigorous testing, which has been monitored and endorsed by CWCT, SikaTack® Panel Adhesive has a proven track record and is supported with impressive wind loading and dead weight statistics.

As part of Sika® ongoing research and development the company works with structural engineers to undertake adhesion testing on any new cladding materials to ensure suitability. In addition, the company provides installation training and support to contractors as part of a complete solution.

Needing no screws or brackets, SikaTack® Panel Adhesive provided an easy method of applying the panels. The panels were first prepped using a specialised cleaner and then both the cladding support system and the cladding are primed.

A special 3mm thick black double-sided adhesive tape was then applied to the support system to provide temporary support. This enables the panels to be correctly positioned as once the SikaTack® Panel Adhesive is applied the panels are firmly stuck in place and cannot be moved. Once the panel is in position, the adhesive was applied and the cladding panels were then fixed into place.

Sika® elastic bonding technology means there is no need for extensive metal fixings. This helps save on project costs as time on site is reduced due to the minimal preparation and installation time needed compared to that required for more traditional fixings.

Full testing has been carried out on the SikaTack® Panel Adhesive system, which has proven to last without any reduction in performance. It has BBA accreditation ensuring peace of mind to both specifiers and contractors alike.



SikaTack® Panel Structural Fixing System

For the secret fixing of Rainscreen Cladding Systems

System Description

The SikaTack® Panel System is an adhesive system for the economic, concealed fixing of ventilated façade panels. The system consists of the elastic adhesive SikaTack® Panel, the double sided SikaTack® Panel fixing tape and pre-treatment products. With the SikaTack® Panel System, façade panels are invisibly attached to their normal substructures, without any additional mechanical fixings.

Uses

Concealed bonded fixing of ventilated façade panels for:

- Residential and commercial buildings
- New build and renovation projects
- Interior finishing works

Suitability

Deemed suitable for the fixing of Rainscreen panelling made from:

- Composite, Ceramic, High Pressure Laminates, High Pressure Cements, Natural Stone

Characteristics /Advantages

- 1-part products, ready to use
- Economical for rapid fixing
- Uniform tension over the whole façade panel (no stress points)
- Resistant to weathering and ageing
- Vibration and movement absorbing fixing system
- Provides creative opportunities for façade design
- Good looking, easy to maintain façade surface
- Silicone free

Tests/Approval / Standards

BBA Certificate 05/4218. Approval from "Deutsches Institut für Bautechnik" Berlin, Reg. No.: Z-10.8-408.

Quality Assurance

As part of ISO 9001/EN29001, the quality of the SikaTack® Panel Adhesive System is constantly checked and monitored. Adhesion and durability testing maybe carried out upon request for varying types of cladding materials.

Further Information

Sika Construction has a comprehensive range of Elastic Bonding systems to meet the requirements of virtually any structure and application. These solutions are backed up by a highly experienced technical team, who offer expert specification advice and support. For Project specific technical advice is available please contact our technical department on 0800 1123863 or alternatively email: technical@uk.sika.com



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