

BONDED CLADDING IN COLD CLIMATE AREAS

Modern architecture demands more than just visual impact. Today's façade systems must also perform reliably under the most challenging environmental conditions — including extreme cold.

At TWEHA®, we are proud to contribute to spectacular architectural projects around the world with innovative and durable bonding solutions designed for long-term performance. One inspiring example is the **Lake Road project in Cleveland, Ohio (USA)** — a location where winter temperatures can drop significantly below freezing.

Bonding Challenges in Cold Weather

Cold climate conditions create major challenges for façade installation and adhesive bonding.

Low temperatures can negatively affect:

- curing performance,
- adhesion quality,
- processing time,
- and overall installation reliability.

Many conventional bonding systems depend heavily on primers to achieve proper adhesion. However, these primers often stop functioning correctly when temperatures become too low.

The result:

- installation delays,
- inconsistent bond quality,
- and increased risk of failure.

The TWEHA® Solution for Low-Temperature Bonding



TWEHA® solved this challenge years ago.

Unlike many traditional systems, TWEHA® adhesive technologies do not rely on primers for safe and durable bonding performance. Because no primer is required, TWEHA® systems can continue to perform reliably even at **temperatures below 5°C (41°F)**

This provides installers with:

- greater flexibility,
- improved reliability,
- fewer weather limitations,
- and continuous project progress during colder seasons.

Even under demanding winter conditions, TWEHA® adhesive systems maintain the high-quality performance required for professional façade installations.

The Lake Road Project — Cleveland, Ohio

For the Lake Road project, TWEHA® partnered with Laminam, the innovative manufacturer of large-format ceramic façade panels.

These advanced ceramic sheets combine:

- elegant aesthetics,
- lightweight performance,
- high durability,
- and modern architectural freedom.

Using TWEHA® bonding technology, the façade panels were securely bonded to a series of apartment buildings located in a stunning and inspiring environment near Lake Erie.

And naturally — no primer was required.

Reliable Bonding for Modern Architecture

Projects in cold regions require adhesive systems that can withstand:

- freezing temperatures,
- thermal expansion and contraction,
- wind loads,
- moisture,
- and long-term environmental stress.

TWEHA® bonding systems are specifically engineered to absorb these forces while maintaining:

- permanent elasticity,
- durable adhesion,
- and long-term structural reliability.

This makes them ideal for modern ventilated façade constructions in even the harshest climate conditions.

Proven Performance Worldwide

From Europe to North America and beyond, TWEHA® bonding systems continue to prove themselves in demanding architectural applications worldwide.

Thanks to decades of:

- experience,
- research,
- innovation,
- and technical expertise,

TWEHA® delivers façade bonding solutions trusted by architects, contractors, and façade specialists across the globe.

Because beautiful architecture should never be limited by climate conditions.

TWEHA®, 2026