

ALL ABOUT BONDING AT LOW TEMPERATURES

Low temperatures have long been considered one of the biggest challenges in adhesive bonding technology. In many traditional bonding systems, cold weather conditions can seriously affect processing quality, curing performance, and long-term reliability.

For many manufacturers and installers, this creates a familiar dilemma:

How can reliable bonding be guaranteed during cold-weather installation?

TWEHA® solved this challenge years ago.



Reliable Bonding — Even in Extreme Cold

Thanks to the advanced formulation of TWEHA® adhesive systems, bonding applications can be carried out safely and reliably even at extremely low temperatures.

While many conventional adhesive systems become limited in cold environments, TWEHA® products are specifically engineered to maintain high-performance bonding characteristics down to: **-20°C (-4°F)**

This allows installers and façade professionals to continue working efficiently during winter conditions without compromising quality or safety.

Why Conventional Systems Often Fail at Low Temperatures

One of the biggest limitations in traditional bonding systems is not always the adhesive itself — but the primer.

Many adhesive systems depend on primers to achieve sufficient adhesion to the substrate. However, at lower temperatures:

- Primers often stop functioning correctly,
- curing reactions become unreliable,
- adhesion performance decreases,
- and the risk of bond failure increases significantly.

This creates installation delays, inconsistent quality, and weather-related limitations on-site.

The TWEHA® Advantage: Primer-Free Technology

TWEHA®'s bonding systems are designed differently.

Because the system does not rely on conventional primers, installers avoid many of the temperature-related limitations associated with traditional adhesive technologies.

The result:

- reliable adhesion,
- consistent application quality,
- reduced weather dependency,
- faster installation processes,
- and greater project flexibility throughout the year.

This unique approach enables professional bonding performance even under demanding winter conditions.

Built for Real-World Conditions

Modern façade systems are exposed to continuous environmental stress, including:

- extreme temperature fluctuations,
- moisture,
- UV exposure,
- wind loads,
- and structural movement.

TWEHA® adhesive systems are engineered to absorb these stresses while maintaining:

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

Even under harsh cold-weather conditions, TWEHA® continues to deliver the quality and durability required in professional façade construction.

More Installation Flexibility, Less Downtime

For installers, contractors, and façade specialists, cold-weather processing capability means:

- fewer project delays,
- extended installation seasons,
- increased productivity,
- and greater reliability on-site.

Instead of stopping work due to temperature restrictions, professionals can continue installation with confidence.

Proven Performance Through Experience

With decades of experience in façade bonding technology, TWEHA® combines:

- innovation,
- extensive testing,
- practical expertise,
- and proven field performance.

The result is a bonding system trusted worldwide for durable and reliable façade installations — even in the most demanding climate conditions.

Because when performance matters, temperature should never become a limitation.

TWEHA®, 2026