

## THE CONSTRUCTION INDUSTRY IS EVOLVING

The construction industry is changing rapidly. Modern building methods increasingly focus on:

- efficiency,
- sustainability,
- speed,
- quality control,
- and industrialized construction processes.

As a result, the industry is moving increasingly toward: **prefab and modular construction**. And within this evolution, the advantages of advanced adhesive systems are becoming increasingly important.

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### Adhesive Bonding and Prefab Construction: A Perfect Combination

In prefab construction, building components are manufactured under controlled factory conditions before being transported to the construction site for assembly.

This controlled environment creates ideal conditions for professional adhesive bonding systems.

Unlike traditional on-site construction, prefab manufacturing minimizes the influence of:

- weather conditions,
- temperature fluctuations,
- moisture,
- and installation inconsistencies.

This allows adhesive systems to perform at their absolute best.

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### Superior Quality Control

One of the greatest advantages of prefab production is the ability to maintain strict quality control throughout the manufacturing process.

Because adhesive systems are applied in controlled factory environments:

- processing conditions remain stable,
- application quality can be monitored continuously,
- and installation errors are significantly reduced.

This ensures:

- consistent bond quality,
- reliable curing,
- and long-term structural performance.

For façade bonding applications, this level of control is a major advantage compared to unpredictable on-site conditions.

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### **Faster and More Efficient Construction**

Prefab construction combined with adhesive technology significantly improves construction efficiency.

Different building elements can be produced simultaneously while adhesive systems enable:

- rapid assembly,
- simplified installation,
- and clean bonding processes.

The result:

- shorter production times,
- reduced on-site labor,
- and faster project completion.

In today's construction market, where speed and efficiency are increasingly critical, these advantages are invaluable.

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### **Significant Cost Savings**

The combination of prefab construction and adhesive systems can also generate substantial cost reductions.

Controlled factory production helps minimize:

- material waste,
- rework,
- installation errors,
- and labor-intensive on-site operations.

At the same time, faster construction timelines contribute to:

- reduced labor costs,
- improved project planning,
- and lower overall project expenses.

Efficient bonding technology therefore creates value far beyond the adhesive itself.

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### **Durability and Long-Term Performance**

High-quality adhesive systems provide:

- excellent adhesion,
- strong distribution load,
- permanent elasticity,
- and outstanding durability.

Because adhesive bonding distributes stress evenly across the bonded surface, prefab structures benefit from:

- improved fatigue resistance,
- reduced stress concentrations,
- and enhanced long-term structural stability.

Controlled factory conditions also ensure optimal curing behavior, contributing directly to the lifespan and reliability of the construction.

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### **Greater Design Freedom**

Modern architecture increasingly demands:

- innovative shapes,
- lightweight structures,
- hidden fixing systems,
- and complex material combinations.

Adhesive bonding technology offers architects and engineers far greater design flexibility compared to traditional mechanical fastening methods.

Using adhesive systems, different materials can be joined:

- efficiently,
- securely,
- and aesthetically.

This allows the creation of:

- sleek architectural details,
- seamless façade systems,
- and highly innovative prefab designs.

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### **Supporting Sustainable Construction**

Prefab construction combined with advanced bonding technology also contributes to more sustainable building practices.

Benefits include:

- reduced material waste,
- lower energy consumption,
- lighter constructions,
- reduced transportation loads,
- and improved building performance.

As the construction industry continues moving toward circular and sustainable building concepts, adhesive bonding systems become an increasingly important part of future-ready construction.

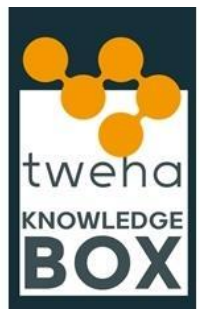
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### **TWEHA®: Supporting the Future of Construction**

At TWEHA®, we see the evolution of the construction industry as an opportunity to further innovate and improve bonding technology.

Our high-quality adhesive systems are specifically developed to support:

- prefab construction,
- modular building systems,
- ventilated façades,
- and modern architectural applications.



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

- reliability,
- efficiency,
- sustainability,
- and long-term performance.

Because the future of construction is not only about building faster — it is about building smarter, safer, and more sustainably.

TWEHA®, 2026