

FIRST, CLEAN THE SURFACES TO BE JOINED!

When it comes to adhesive bonding, success does not start with the adhesive itself — it starts with proper surface preparation.

Even the highest-quality adhesive cannot perform optimally if the surfaces are contaminated with dust, grease, oil, or other residues. That is why cleaning and degreasing are essential first steps in every professional bonding process.

The good news?

Effective surface preparation is simple, fast, and makes a major difference in the long-term performance of the bond.

Why Surface Cleaning Is So Important

For an adhesive to create a strong and durable connection, it must come into direct contact with the substrate surface.

Contaminants such as:

- Dust;
- Oil;
- Grease;
- Fingerprints;
- Processing residues;
- Moisture;
- Dirt particles,

can prevent proper adhesion and significantly reduce bond strength and durability.

Poorly prepared surfaces often lead to:

- Reduced adhesive performance;
- Premature bond failure;
- Reduced weather resistance;
- Loss of structural reliability;
- Costly repairs or replacements.

In professional façade construction and industrial bonding, proper cleaning is therefore not optional — it is critical.

Clean First, Bond Better

Before bonding, all surfaces must be thoroughly cleaned and degreased to ensure optimal adhesive performance.

The objective is simple:

Create a perfectly clean, dry, and contamination-free surface that allows the adhesive to achieve maximum bonding strength.

This step is particularly important when bonding:

- Metals;
- Aluminium;
- Composite panels;
- Coated materials;

- Synthetic surfaces;
- Ventilated façade components.

Use the Right Cleaner for the Job

Not every cleaning product is suitable for adhesive applications.

An effective cleaner must:

- Remove contaminants efficiently;
- Evaporate correctly;
- Leave no residue;
- Avoid damaging the substrate;
- Be compatible with the adhesive system.

That is why professionals choose cleaning products specifically developed for adhesive bonding systems, such as TWEHA® Cleaner+.

TWEHA® Cleaner+ is specially formulated to work in combination with the TWEHA® adhesive process, ensuring optimal surface preparation and reliable long-term adhesion.

Never Use Aggressive Household Solvents

One of the most common mistakes in bonding applications is using unsuitable degreasing products.

Never use:

- Thinner;
- Benzene;
- Petrol;
- Brake cleaner;

to clean surfaces prior to bonding.

These products may:

- Leave harmful residues;
- Damage coatings or substrates;
- Affect adhesive chemistry;
- Reduce long-term bond reliability.

Using the wrong cleaner can compromise the entire bonding process — even before the adhesive is applied.

Professional Bonding Starts with Professional Preparation

A durable adhesive bond is only as strong as the surface preparation behind it.

By investing a few extra minutes in proper cleaning and decreasing, you ensure:

- Better adhesion;
- Longer service life;
- Improved safety;
- Higher reliability;
- Professional-quality results.

In adhesive bonding, preparation is not a minor detail — it is the foundation of performance.