

Dow Corning® PanelFix System

High-performance bonding for façade cladding

System Components

Dow Corning® 896 PanelFix

Silicone adhesive specifically designed for panel bonding applications.

Dow Corning® PanelFix Tape

A pre-fixing tape for easier on-site application.

Primers and cleaners

Dow Corning® Construction Primer P,
Dow Corning® R40 Universal Cleaner,
Dow Corning® R41 Cleaner Plus

Features/Benefits

- Fast strength buildup – immediate high tack upon application
- High-strength, elastic silicone adhesion
- One-part, moisture-cure, neutral, low-odor formulation
- Interior and exterior application
- Unique UV, temperature and fire resistance provide long-term durability
- No visible connection points, unlike mechanical fasteners
- Low squeeze-out; minimal waste
- Primerless adhesion to a wide range of mineral substrates and metals
- Preparation requires no abrasion of the substrates
- Stable over a wide temperature range: -50 to +150°C

Tailor-made for façade cladding applications, the *Dow Corning®* PanelFix System is a completely new solution for panel bonding. Cost-effective and easy to use, the system expands building cladding design possibilities while maintaining safety and control.

The *Dow Corning* PanelFix System features *Dow Corning®* 896 PanelFix silicone adhesive, an elastic adhesive specifically designed for non-glass panel applications that require high durability and fast handling. *Dow Corning* 896 PanelFix offers:

- Very good adhesion properties, with primerless adhesion to a variety of substrates, such as anodized aluminum and mineral substrates
- Immediate tack upon application
- High strength once fully cured
- Ease of use and easy application
- Application, auditing and warranty support via the Dow Corning *Quality Bond™* program

The *Dow Corning* PanelFix System provides many advantages, including:

- Architects achieve **design freedom**. With no need for mechanical fasteners, the bonding is not visible, maximizing aesthetics.
- Building owners and engineers can select **lower-weight, less-expensive cladding options**, free from the thickness requirements of mechanical fixations.
- Manufacturers can be confident in **global product availability**, backed by technical support from a trusted industry leader.
- Applicators will appreciate the system's **time-saving features**, including easy extrusion, excellent compression resistance and easy surface preparation, as well as the dead load support enabled by its instant green strength.

Application Types

Factory Bonding – In the factory, *Dow Corning* 896 PanelFix is used to bond hooks onto the panel, which is then connected on-site to the subframe. With its extensive movement capability, *Dow Corning* 896 PanelFix can be used with virtually any size of panel, and its high instant green strength eliminates the need for tape.

Classic On-Site Bonding – *Dow Corning* 896 PanelFix and *Dow Corning®* PanelFix Tape enable direct application of façade panels to the subframe on-site.



Figure 1. The Dow Corning® PanelFix System enables easy on-site application of façade panels without the aesthetic drawbacks of mechanical fasteners.

Silicone technology for safety and durability

- Improved fire resistance versus organics
- Excellent weatherability
- Resistant to UV, ozone and temperature extremes

Raising application quality standards with Quality Bond™

For added confidence, the Dow Corning PanelFix System is available through Dow Corning *Quality Bond* – a program that brings together state-of-the-art products, standards of best practice in quality control, quality assurance and product application with silicone fabricators and applicators. *Quality Bond* members benefit from specialized technical support, including joint calculation assistance, adhesion testing and application training.

Learn more

Complete installation and quality assurance guidelines can be found in the *Dow Corning*® PanelFix System Manual, form number 62-1706.

Contact us

With more than 50 years of construction industry experience, Dow Corning High Performance Building Solutions has developed a wide range of proven materials for structural and protective glazing, weatherproofing, insulating glass, window and door fabrication, high-efficiency insulation, and building materials protection. Discover more about the *Dow Corning* PanelFix System and our full range of construction industry solutions, including service and support, at dowcorning.com/construction.

Dow Corning has sales offices, manufacturing sites, and science and technology laboratories around the globe. Find local contact information at dowcorning.com/ContactUs.

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Printed in USA

AGP13056

Form No. 63-1260A-01

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