DOWSIL™ PANEL Fix System

High performance bonding system designed for façade cladding

- Very good adhesion properties
- Easy application
- Highest quality standards of application are supported through the Dow Quality Bond™ program

ICE Krakow, Image Courtesy of G Ziemianski
DOWSIL™ PANELFIX SYSTEM

• DOWSIL™ 896 PanelFix
  Silicone adhesive tailor made for panel bonding

• DOWSIL™ PanelFix Tape
  Prefixing tape for easier on-site application

• DOWSIL™ Cleaner and Primer
DOWSIL™ 896 PANELFIX

- 1-part silicone adhesive
- Immediate initial strength enables high green strength
- Low squeeze-out
- High compression resistance
- Primerless adhesion to a range of mineral substrates and metal
- Temperature stability over a wide range: -50°C to +150°C
DOWSIL™ PANELFix TAPE

• Keeps the panel in place during the first 24 hours
• Good compressibility enables very strong initial tack, which complements the instant green strength of DOWSIL™ 896 PanelFix
• Ideal for on-site applications
DOWSIL™ CLEANERS AND PRIMERS

- DOWSIL™ R-40 Universal Cleaner and DOWSIL™ R-41 Cleaner Plus
- DOWSIL™ Construction Primer P
- DOWSIL™ 1200 OS Primer
- DOWSIL™ 1200 OS Primer, UV Traceable

Cleaners and primers should be applied according to our Panel Reference List for the DOWSIL™ PanelFix System. For panel substrates not pre-tested please contact a Dow representative.
DOWSIL™ PanelFix System – On-site

Description
The classic method for metallic subframes fixed to a wall

- Adhesive and tape are placed on the subframe on-site
- The panel is finally positioned and fixed on the subframe, directly on-site

Benefits
- Easy method of panel fixation
- Cost effective compared to mechanical fixation
- Enables the fixation of thinner panels, as no panel intrusion is required

Video
https://youtu.be/taNpleXswEk
DOWSIL™ PANELFIX SYSTEM – OFF-SITE

Description
- In-factory bonding process
- Hooks are bonded onto the panel in the factory
- The panel is then hooked onto the fixed sub-frame on site

Benefits
- No weather constraints
- Controlled quality application
  - Temperature, humidity, clean application conditions
- No tape required
- Ideal for the installation of lightweight panels
- No mechanical fixation required
- Extended warranty available for Quality Bond™ in factory application for Quality Bond™ members
BENEFITS TO THE ARCHITECT

• Enables invisible panel attachment for improved aesthetics
• Allows architectural design freedom
• Safe and controlled bonding system

years of proven performance in structural glazing

The Kelpies, Image courtesy of SH Structures & The Helix Trust
BENEFITS FOR PANEL MANUFACTURERS

• Panel bonding with no mechanical fixation, improving aesthetics
• Project specific technical support
  – Substrate adhesion, sealant bite calculations, etc.

years of proven performance in structural glazing
**Benefits for the Applicator**

- **DOWSIL™ PanelFix system can be applied in factory and on-site**
- **Saves time in application**
  - Easy to use and extrude
  - Excellent compression resistance, panels may be adjusted after first tack
- **Cost effective solution that saves time**
  - Easy surface preparation: no abrasion, primerless adhesion on selected substrates
- **Improved dead load support due to instant green strength of the DOWSIL™ 896 PanelFix**
- **UV, temperature and fire resistant**
- **Long-term durability and adhesion performance**
## DOWSIL™ 896 PanelFix Evaluation

<table>
<thead>
<tr>
<th>Materials</th>
<th>DOWSIL™ 896 PanelFix</th>
<th>Competitor 1</th>
<th>Competitor 2</th>
<th>Competitor 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>1-part silicone</td>
<td>1-part PU</td>
<td>Hybrid polymer</td>
<td>Hybrid polymer</td>
</tr>
<tr>
<td>Green strength</td>
<td>1500 to 2000 Pa</td>
<td>&lt; 300 Pa</td>
<td>1500 Pa</td>
<td>&lt; 300 Pa</td>
</tr>
<tr>
<td>Mvt capability (according to TDS)</td>
<td>± 12.5%</td>
<td>± 25%</td>
<td>± 20%</td>
<td>± 25%</td>
</tr>
<tr>
<td>Mvt capability (measured)</td>
<td>± 12.5%</td>
<td>± 12.5%</td>
<td>± 12.5%</td>
<td>± 12.5%</td>
</tr>
<tr>
<td>Elastic recovery</td>
<td>&gt; 90%</td>
<td>80%</td>
<td>&gt; 75%</td>
<td>-</td>
</tr>
<tr>
<td>Shelf life</td>
<td>12 months</td>
<td>9 months</td>
<td>12 months</td>
<td>12 months</td>
</tr>
<tr>
<td>Temperature resistance</td>
<td>-50°C to 150°C</td>
<td>-40°C to +90°C</td>
<td>-40°C to +90°C</td>
<td>-40°C to +90°C</td>
</tr>
</tbody>
</table>

These are typical properties and not to be construed as specifications.
DOWSIL™ PANELFIX SYSTEM

- Achieve design freedom and maximize aesthetics
- High durability and fast handling
- Allows selection of lower weight, less expensive cladding options
- Dead load resistance
- Fire resistance
- Assessed by the BBA, Agrément certificate No. 16/5306
- Meets the requirements of ETA 17/0689

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