Description
FA870 is a one component, low slump silicone completely free of any ingredients likely to cause migratory staining to natural stone. It is neutral curing for safe sealing of stonework and has a conventional finish. Contains fungicide. FA870 is classified according to ISO 11600 as F-20HM. Please see table below for further classifications.

Colours
Available in 24 colours – see colour chart

Packaging
310 ml cartridge (12 per carton)

Technical Information

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Standard</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classification</td>
<td>EN 15651-1</td>
<td>Class 25 LM CC</td>
</tr>
<tr>
<td></td>
<td>EN 15651-3</td>
<td>XS2</td>
</tr>
<tr>
<td>Staining</td>
<td>DIN ISO 16938</td>
<td>No migratory staining</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>BS EN 1183-1B</td>
<td>~1.0</td>
</tr>
<tr>
<td>Skin Formation</td>
<td>+23°C, 50% RH</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Curing Rate</td>
<td>+23°C, 50% RH</td>
<td>~3.5 mm in 1st day</td>
</tr>
<tr>
<td>Shrinkage</td>
<td>BS EN 10563</td>
<td>Approx. 5%</td>
</tr>
<tr>
<td>Modulus at 100% Elongation</td>
<td>BS EN 8339</td>
<td>0.5 N/mm²</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>BS EN 8339</td>
<td>Approx. 0.6 N/mm²</td>
</tr>
<tr>
<td>Elastic Recovery at 60% Elongation</td>
<td>BS EN 7389</td>
<td>&gt; 90%</td>
</tr>
<tr>
<td>Movement Capability</td>
<td>ISO 11600</td>
<td>DIN EN ISO 11600-F-20HM</td>
</tr>
<tr>
<td>Shore A Hardness</td>
<td>DIN 53505; ISO 868</td>
<td>~26</td>
</tr>
<tr>
<td>Application Temperature</td>
<td>+5°C to +40°C</td>
<td></td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-40°C up to +150°C*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>*short term</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>Store in shaded dry conditions between +5°C and +25°C.</td>
<td></td>
</tr>
<tr>
<td>Shelf Life</td>
<td>18 months when stored as recommended in original unopened containers.</td>
<td></td>
</tr>
</tbody>
</table>

Necessary Tools
- Geared cartridge gun, smoothing tools such as illbruck AA311.

Protective Equipment
Use in well ventilated conditions and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

Joint Design Considerations
- Joint design to be in accordance with BS 6093.
- For the purposes of joint width calculation to ISO 11600, the maximum movement capability of FA870 is 20%.
- Minimum joint width should normally not be less than 5 mm.
- Typical maximum joint width of 30 mm, however, for all large joints (greater than 30 mm), please contact Tremco CPG to discuss project specifics.

Usage / Purpose
FA870 has been formulated for the long term elastic sealing of movement joints between natural stone such as granite, slate, terrazzo, porphyry, limestone, travertine, sandstone, quartzite, marble, etc., as well as for joints with other construction materials like concrete, ceramics, metals, glass, PVC and primed wood.

Key Benefits
- A high performance silicone sealant developed specifically for the sealing of natural stone whereby Tremco CPG guarantees no migratory staining
- Good resistance to UV light, ageing and weathering
- Contains fungicide to prevent mould growth - suitable for sanitary & swimming pool surround applications
- Rapid curing formulation - skins within 10 - 20 minutes
- Chemically neutral, not corrosive and very low odour
- Compatible with most construction materials
Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee / Warranty
Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

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www.cpg-europe.com

**FA870 Premium Natural Stone Silicone**

- Width to depth ratio should typically be 2:1.
- Minimum width to depth ratio should typically be 1:1. Please note MAF is reduced at smaller width to depth ratios.
- The minimum contact area with any substrate (including for fillet joints) should be determined by the quality of the bond. If in doubt please contact Tremco CPG.
- PE backing rod should be used in all movement joint applications.

**Preparation**
- Always carry out a test to confirm compatibility prior to use.
- Surfaces must be clean, free from grease and must be stable and dry.
- For non-porous substrates use cleaner AT200, do preliminary test.
- Use a brush to remove loose particles from joints.
- For plastics and powder coatings, clean with AT115 and conduct preliminary tests to confirm compatibility.

**Priming**
- FA870 adheres well to most surfaces – please refer to primer table for best results.

**Primer Table**

<table>
<thead>
<tr>
<th>Bricks, Concrete &amp; Stone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Stone</td>
<td>+, AT101</td>
</tr>
<tr>
<td>Concrete</td>
<td>AT101</td>
</tr>
<tr>
<td>Fibre Concrete</td>
<td>AT101</td>
</tr>
<tr>
<td>Brick</td>
<td>AT101</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium</td>
</tr>
<tr>
<td>Aluminium Anodised</td>
</tr>
<tr>
<td>Aluminium Powder Coating</td>
</tr>
<tr>
<td>Galvanised Steel</td>
</tr>
<tr>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Copper</td>
</tr>
<tr>
<td>Brass</td>
</tr>
<tr>
<td>Iron</td>
</tr>
</tbody>
</table>

**Glass**
- Glass | + |

**Plastics**
- ABS | +, AT105, AT120|
- GRP Polyester* | + |
- Polyamide* | +, AT120|
- Polycarbonate* | +, AT105, AT120|
- Polystyrene* | AT105, AT120|
- Sanitary Acrylic* | AT105, AT120, AT160|
- Acrylic Glass PMMA |
- PVC Rigid* | +, AT160|
- PVC Soft Sheet/Film |

**Wood**
- Wood Primed* | + |
- Wood Painted* | AT105, AT120|
- Wood Painted Acrylic* | + |
- Wood Stained* | AT105, AT120|

**Tiles**
- Glazed Tiles | + |
- Unglazed Tiles | +, AT101|
- Tiles Reverse Side |

* = good adhesion can normally be expected without primer.
Reference numbers (e.g. AT111) show the type of illbruck primer required to improve adhesion.
Where there is no result listed according to substrate please contact technical department.

**Joint Backing**
- Backing rod is recommended beneath the joint to ensure the sealant is only bonded to two surfaces.

**Application**
- Use a high quality geared sealant gun to expel the sealant consistently. Cut cartridge nozzle to desired aperture.
- Apply sealant slightly proud of desired level, spray on illbruck smoothing agent AA301.
- Tool off immediately using a jointing tool such as illbruck AA311.

**Coverage**

<table>
<thead>
<tr>
<th>Width x Depth (mm)</th>
<th>Linear metres per 310 ml Cartridge</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 x 5</td>
<td>12.4</td>
</tr>
<tr>
<td>8 x 6</td>
<td>6.4</td>
</tr>
<tr>
<td>10 x 8</td>
<td>3.8</td>
</tr>
<tr>
<td>15 x 10</td>
<td>2.0</td>
</tr>
<tr>
<td>20 x 12</td>
<td>1.2</td>
</tr>
<tr>
<td>25 x 15</td>
<td>0.8</td>
</tr>
</tbody>
</table>

**Cleaning**
Clean tools or sealant spillage immediately with AT200 Cleaner. Ensure surface is solvent resistant before cleaning. Cured sealant can only be removed mechanically.

**Please Note**
Not suitable for some substrates such as butyl rubber, neoprene, EPDM, bituminous or tar containing surfaces. Contact with bituminous or tar containing surfaces can lead to discouling and failing adhesion.

**Health & Safety Precautions**
Safety data sheet must be read and understood before use.

**Bricks, Concrete & Stone**
- Natural Stone +, AT101
- Concrete AT101
- Fibre Concrete AT101
- Brick AT101

**Metals**
- Aluminium +
- Aluminium Anodised +
- Aluminium Powder Coating +, test
- Galvanised Steel +, AT105, AT120
- Stainless Steel +, AT105, AT120
- Copper +, AT105, AT120
- Brass +, AT105, AT120
- Iron +

**Glass**
- Glass +

**Plastics**
- ABS +, AT105, AT120
- GRP Polyester* +
- Polyamide* +, AT120
- Polycarbonate* +, AT105, AT120
- Polystyrene* AT105, AT120
- Sanitary Acrylic* AT105, AT120, AT160
- Acrylic Glass PMMA
- PVC Rigid* +, AT160
- PVC Soft Sheet/Film

**Wood**
- Wood Primed* +
- Wood Painted* AT105, AT120
- Wood Painted Acrylic* +
- Wood Stained* AT105, AT120

**Tiles**
- Glazed Tiles +
- Unglazed Tiles +, AT101
- Tiles Reverse Side

+ = good adhesion can normally be expected without primer.
Reference numbers (e.g. AT111) show the type of illbruck primer required to improve adhesion.
Where there is no result listed according to substrate please contact technical department.
* = Substrates can vary in their surface properties; therefore, adhesion tests prior to use are recommended.