



SGG BIOCLEAN®
Self-cleaning glass

Customer Technical Guide

April 2005

This technical guide has been produced to provide practical information on products compatible for use with SGG BIOCLEAN®.

The use of the recommended products quoted in this guide maintains the special properties of this glass.

The products listed in this document have been submitted by the suppliers for testing in the Saint-Gobain Glass test facilities at the dates shown in the table.

The product references tested have been found to be compatible with the requirements of SGG BIOCLEAN®

For more information on particular characteristics of the products and their suitability as glazing materials please refer directly to the supplier. Please check with the suppliers that the products have not been changed in a way that could affect their compatibility after the test dates shown in the tables.

Glazing materials and methods should comply with the guidance provided by the relevant current national regulations, standards and codes of practice and with the recommendations of the supplier of the glazing materials.

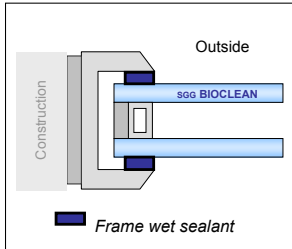
Saint-Gobain Glass cannot accept responsibility for any loss or damage incurred as a result of use of this guide

For further information concerning SGG BIOCLEAN® and its instructions for use, please contact your Saint-Gobain Glass representative, or our web site www.saint-gobain-glass.com/bioclean



List of products compatible with SGG BIOCLEAN

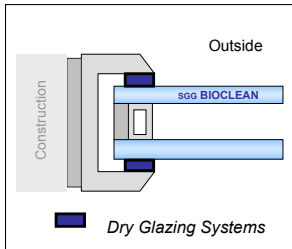
The products mentioned in the graphs below are compatible with SGG Bioclean at the date tested. Verify with the supplier that the product hasn't been modified since is fully recommended. Saint-Gobain Glass is not responsible for an eventual modification brought to those products.



Glass / Frame wet sealant

Important : no silicone sealant commercial reference has proved compatibility with SGG Bioclean. Product alternatives are the MS-Polymer based sealants below

| Family | Supplier | Reference | Comment | Date tested | Internet | Tel. U.K |
|--------------|----------|---------------|--|-------------|--|-----------------|
| XMAP-Polymer | Soudal | SMX 505 | Certified Sealant ISO11600 Bioclean adhesion certified according to EN 11431 | 01.2005 | www.soudal.be | 0 18 27 261 092 |
| MS-Polymer | Kent | Rotabond 2000 | Need of the MS Prep Primer : Bioclean adhesion certified according to EN 11431 | 08.2003 | www.kenturope.com | 0 800 136 925 |
| MS-Polymer | Soudal | 4 All Paint | Bioclean adhesion certified according to EN 11431 | 06.2004 | www.soudal.be | 0 18 27 261 092 |

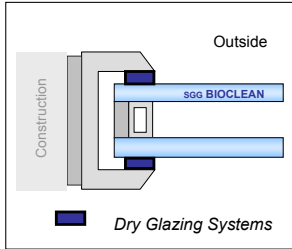


Dry Glazing Systems

Important : prevent any use of silicone oiled gasket. Prefer the gaskets listed below, dry or lubricated without silicone oil

| Family | Supplier | Reference | Comment | Date tested | Internet | Tel. U.K |
|------------|------------|--------------------------------|-----------------------|-------------|--|-------------------------|
| EPDM dry | Daetwyler | 3540 | Not oiled | 12.2003 | www.rubber-plastic.ch | +33 3 44 49 40 80 |
| EPDM dry | Daetwyler | EPDM Slipping with Varnish | Not oiled | 12.2004 | www.rubber-plastic.ch | +33 3 44 49 40 80 |
| EPDM dry | GTG-Schüco | all GTG - dry | Not oiled | 12.2003 | www.gtq-group.com | + 49 (0) 9073 9507-1076 |
| EPDM dry | GTG-Schüco | all GTG with "slipping lacker" | Not oiled | 12.2003 | www.gtq-group.com | + 49 (0) 9073 9507-1076 |
| EPDM dry | GTG-Schüco | all GTG with "promolisiert" | Not oiled | 12.2003 | www.gtq-group.com | + 49 (0) 9073 9507-1076 |
| EPDM dry | Hutchinson | 3582 | Not oiled | 12.2003 | www.hutchinsonrubber.com | 01 543 87 77 38 |
| EPDM dry | Hutchinson | all Dry EPDM | Not oiled | 12.2003 | www.hutchinsonrubber.com | 01 543 87 77 38 |
| EPDM dry | Hutchinson | Talc EPDM | Talc slipping | 12.2003 | www.hutchinsonrubber.com | 01 543 87 77 38 |
| EPDM dry | Hutchinson | Tekskin EPDM | Slipping with Tekskin | 12.2003 | www.hutchinsonrubber.com | 01 543 87 77 38 |
| EPDM dry | Hutchinson | 3583 | Not oiled | 12.2003 | www.hutchinsonrubber.com | 01 543 87 77 38 |
| EPDM dry | Linear | 4058 - 101 | Not oiled | 12.2003 | www.linear.fr | 01 628 477 066 |
| EPDM dry | Linear | 4100 - 101 | Not oiled | 12.2003 | www.linear.fr | 01 628 477 066 |
| EPDM oiled | Linear | 4058 - 101 | Slightly lubricated | 12.2003 | www.linear.fr | 01 628 477 066 |
| EPDM oiled | Linear | 4100 - 101 | Slightly lubricated | 12.2003 | www.linear.fr | 01 628 477 066 |





Dry Glazing Systems (continuation)

Important : prevent any use of silicone oiled gasket. Prefer the gaskets listed below, dry or lubricated without silicone oil

| | | | | | | |
|-------------|-----------------|-------------------------------|-----------------------------------|----------|--|--------------------|
| EPDM dry | reddiplexe | 3237 | Not oiled | 10.2003 | www.reddiplex.co.uk | 01 905 795 432 |
| EPDM dry | reddiplexe | 3231 | Not oiled | 10.2003 | www.reddiplex.co.uk | 01 905 795 432 |
| EPDM dry | reddiplexe | 3234 | Not oiled | 10.2003 | www.reddiplex.co.uk | 01 905 795 432 |
| EPDM dry | reddiplexe | 9028 | Slightly lubricated | 10.2003 | www.reddiplex.co.uk | 01 905 795 432 |
| TPE | Deceuninck | TPE | Not oiled | 09.2003 | www.deceuninck.com | +32 (0) 51 239 376 |
| EPDM dry | Semperit | 2600 | Not oiled | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| EPDM dry | Semperit | 2631 | Not oiled | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| EPDM dry | Semperit | 2633 | Not oiled | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| EPDM & talc | Semperit | 2600 | Talc slipping | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| EPDM & talc | Semperit | 2634 | Talc slipping | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| EPDM & talc | Semperit | 2631 | Talc slipping | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| EPDM & talc | Semperit | 2633 | Talc slipping | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| EPDM coated | Semperit | EPDM Slipping with Varnish | Varnish slipping | 11.2003 | www.semperit.at | 0 118 921 48 01 |
| PVC-U | Spectus Systems | Unsilicised PVC-U | Not oiled | 09.2003 | www.spectusystems.com | 08702400831 |
| EPDM dry | Trelleborg | EPDM Dry | Not oiled | 09.2003 | www.trelleborg.com/industrialprofiles | 0121 352 3800 |
| EPDM dry | Trelleborg | EPDM Gleitpolymer P 3200 | Slipping with Gleitpolymer P 3200 | 06 .2004 | www.trelleborg.com/industrialprofiles | 0121 352 3800 |
| EPDM dry | Trelleborg | EPDM Cellular Strip Untreated | Slipping with Cellular Strip | 06 .2004 | www.trelleborg.com/industrialprofiles | 0121 352 3800 |
| EPDM dry | Trelleborg | EPDM with potatoes starch | Slipping with Potatoes starch | 06 .2004 | www.trelleborg.com/industrialprofiles | 0121 352 3800 |
| EPDM dry | Tremco | Peroxide EPDM 65 | Not oiled | 12 .2004 | www.tremco-prosytec.com/ | 0 1753 691696 |
| EPDM dry | Tremco | 70 Duro EPDM | Not oiled | 12 .2004 | www.tremco-prosytec.com/ | 0 1753 691696 |
| EPDM dry | Tremco | 60 Duro EPDM | Not oiled | 12 .2004 | www.tremco-prosytec.com/ | 0 1753 691696 |
| EPDM dry | Tremco | SCR 900-70 | Not oiled | 12 .2004 | www.tremco-prosytec.com/ | 0 1753 691696 |
| EPDM dry | VEKA | Extruded EPDM | Not oiled | 06.2003 | www.veka.com | 01 282 716 611 |



Products compatible with sgg BIOCLEAN®

Construction / Frame Wet Sealant

Important : no silicone sealant are preferred, to prevent any damage to the SGG Bioclean functionality due to water run-off polluted by silicone oils

| Family | Supplier | Reference | Comment | Date tested | Internet | Tel.U.K |
|------------|----------|-----------|---------|-------------|--|-----------------|
| MS-Polymer | Soudal | LM 215 | | 06.2003 | www.soudal.be | 0 1 827 261 092 |

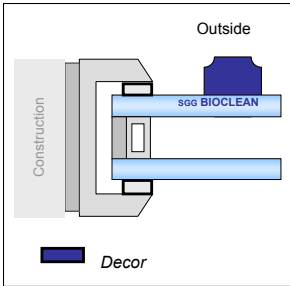
Windows Systems

| Family | Supplier | Reference | Comment | Date tested | Internet | Tel. Germany |
|--------|------------------------------|---------------------------|---------|-------------|--|---------------|
| PVC | VEKA | 112.253.0000. 00 66200 | | | www.veka.com | 0 1282716611 |
| PVC | Dimex | PCE étanche extrudé | | | www.veka.com | 0 1282716611 |
| PVC | Profine (Kömmerring-Thyssen) | EPDM 9044.1 | | | www.koemmerling.com | 0 1895 465600 |



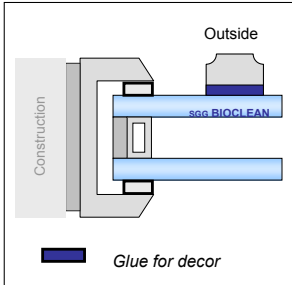
Class-Frame Sealing

Strips-Decor-Leading-Tape



| Family | Supplier | Reference | Comment | Date tested | Internet | Tel. U.K |
|-------------|---------------------|--------------------|------------------------|-------------|--|-----------------|
| Tape | UK Industrial Tapes | Prolink R + | Tape for Strips | 10.2003 | www.ukindustrialtapes.co.uk | 0 191 487 3 255 |
| Foamed tape | UK Industrial Tapes | Foamlink 1603 H + | | 10.2003 | www.ukindustrialtapes.co.uk | 0 191 487 3 255 |
| Foamed tape | UK Industrial Tapes | Foamlink 1603 H + | | 10.2003 | www.ukindustrialtapes.co.uk | 0 191 487 3 255 |
| Tape | Lohmann | Duplomont 9183 | Glue for strips | 10.2003 | www.lohmann-klebebandsysteme.de | 0 1 296 337 888 |
| Tape | Lohmann | Duplomont 918 | Glue for strips | 10.2003 | www.lohmann-klebebandsysteme.de | 0 1 296 337 888 |
| Tape | Hodgson | Flexistrip (weiss) | | 10.2003 | www.hodgson-sealants.co.uk | 01 482 868 321 |
| Putty | Hodgson | Multi - Putty | Sealant of Strip edges | 10.2003 | www.hodgson-sealants.co.uk | 01 482 868 321 |
| EPDM | Hodgson | EPDM Tape | | 10.2003 | www.hodgson-sealants.co.uk | 01 482 868 321 |
| Tape | Technibond | HDP | | 10.2003 | www.technibond.co.uk | 01 628 642 800 |
| AcrylicTape | 3M | 4941 P | | 10.2003 | www.mmm.com | 08 705 360 036 |
| AcrylicTape | 3M | 4905 F | Transparent adhesive | 10.2003 | www.mmm.com | 08 705 360 036 |
| AcrylicTape | 3M | 4910 | | 10.2003 | www.mmm.com | 08 705 360 036 |

Pieces of decor



Glues and Sealants for Strips-Decor-Leading-Tape

| Family | Supplier | Reference | Comment | Date tested | Internet | Tel. U.K |
|------------|-------------|------------------|-----------------|-------------|--|----------------|
| MS-Polymer | ARBO | G2 schwarz | | 11.2003 | www.arbo.co.uk | 01 773 826 661 |
| MS-Polymer | ARBO | MP 10 (braun) | | 11.2003 | www.arbo.co.uk | 01 773 826 661 |
| MS-Polymer | ARBO | Arboseal (braun) | | 11.2003 | www.arbo.co.uk | 01 773 826 661 |
| MS-Polymer | Technibond | HDP | | 11.2003 | www.technibond.co.uk | 01 628 642 800 |
| MS-Polymer | SIKA | Sikafast 5215 | PU-Hybrid glue | 11.2003 | www.sika-industry.com | 01 403 213 355 |
| MS-Polymer | Den Braeven | Hybrifix Super 7 | MS-Polymer glue | 10.2003 | www.denbraven.nl | 01 226 771 600 |

Glass cleaners

These products are available in supermarkets

| Family | Reference | Comment | Date tested |
|--------|-----------------|--------------|-------------|
| Liquid | Crystal clear | Ready to use | 2002 |
| Liquid | Fairy | Ready to use | 2002 |
| Liquid | Mr Muscle | Ready to use | 2002 |
| Cream | Windolene cream | Ready to use | 2002 |