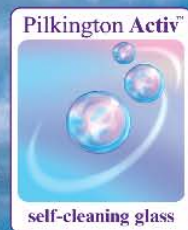


Customer Technical Update
Pilkington Activ™
The world's first self-cleaning glass
April 2009



PILKINGTON
NSG Group Flat Glass Business



Products Compatible with Pilkington Activ™

April 2009

Testing has demonstrated that the use of incorrect materials and in particular silicone containing products with Pilkington Activ™ can affect its performance. This list has been created to help identify compatible materials for use with Pilkington Activ™

This update contains information which is designed to provide you with up to date information about the technical aspects of Pilkington Activ™, in particular glazing materials that are compatible with the product.

New information added since the last edition is shown in RED so you can easily find it.

If you have any further questions, please contact your Pilkington Sales Manager.

Additional advice can be found in the "Handling and Processing Guidelines for Window Manufacturers".

Further information is also available from our websites www.pilkington.com and www.activglass.com

The suppliers that are listed in this document submitted products for testing.

The samples submitted were tested for compatibility with Pilkington Activ™ and the results were positive.

There may be other equivalent products that are also compatible, but which have not been tested.

For any product, guidance should be sought from the supplier regarding its suitability as a glazing material, or its compatibility with other glazing materials.

The glazing method should also take into account the recommendations given in relevant national standards, regulations, codes of practice and recommendations of the manufacturer or supplier of the glazing material.

Pilkington Activ™ has been tested to EN1096-2 which tests the durability of the coating. There is not currently an EN standard to cover self-cleaning performance.

The products are all listed with the dates that they were tested. Please check with the supplier that they have not changed their raw materials or manufacturing process in any way that would affect their product's compatibility. Pilkington supply this information as a service to their customers but accept no responsibility for any loss or damage incurred as a result of using this information.

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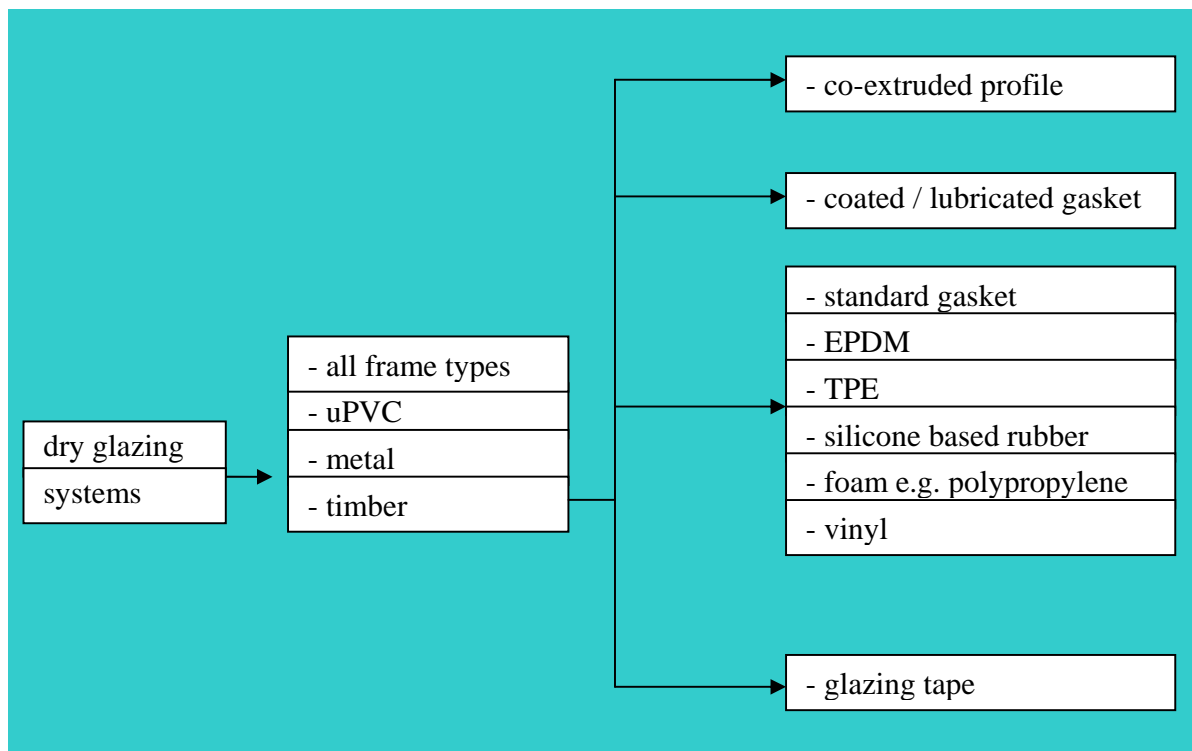
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1. Dry Glazing System Materials - Residential and Commercial Applications



When glazing Pilkington Activ™, the strongly preferred option is to use a co-extruded gasket or a dry rubber gasket.

Only if the use of a dry gasket or co-extruded system is not possible should a rubber gasket lubricated with glycerol or alternative silicone free / siloxane free lubricant be used.

If all of the above options are unavailable then Pilkington Activ™ may be glazed with a recommended silicone emulsion lubricant on a thermoplastic (TPE) rubber gasket. If this option is utilized care should be taken and the following points have to be taken into consideration.

1. All of the lubricated gaskets have been tested for compatibility with Pilkington Activ™ in the vertical orientation. Some of the gaskets that are lubricated with a siloxane emulsion have occasionally shown very low levels of leaching (<2cm) around the perimeter of the glass.
2. Lubricants added to gaskets should only be applied by the manufacturer. Under no circumstances should additional lubricant be added to the gasket. Addition of extra lubricant is likely to result in uncured material on the surface and significantly increases the chances of leaching
3. Due to the longer residence time of water on the gasket, there is the potential for an increased level of leaching if these same gaskets used in sloped glazing. Please check with your supplier to ensure gaskets lubricated with siloxane emulsion are not used in sloped installations.

UNDER NO CIRCUMSTANCES SHOULD A SILICONE OIL LUBRICATED GASKET BE GLAZED AGAINST PILKINGTON ACTIV™.

1.1 Co-extruded Gaskets

Supplier	Product Name	Date Tested	Website	Telephone
Duraflex	Duraflex co-extruded gasket	01.12.2002	www.duraflex.co.uk	UK 01452 726010
Industrial Flexo	Co-extruded gasket. Sample ID: 22.97.8001.0	01.10.2003	www.avon-rubber.com	UK +44 (0) 1225 861100
Profile 22	Bubblex	15.2.06	www.profile22.co.uk	UK 01952 290910
Rehau AG	Rau-pren	13.12.2002	www.rehau.com	Germany 09131 92 5362
Ultraframe	Ultramframe Co-extruded profiles	12.3.2006	www.ultraframe.com	UK 01200 443311
Veka Ltd	Co-extruded profile	15.01.2003	www.vekauk.com	UK 01282 716611

1.2 Coated / Lubricated Gaskets *

- Note: Lubricated / Coated samples sent for testing showed little or no hydrophobic leaching and therefore passed tests. Due to the nature of these lubricants they must be applied by the manufacturer and be fully dried prior to sue. Under no circumstances should additional lubricant be applied on site.**

Check with supplier that the amount of lubricant applied to the gasket has not change composition/ increase, as this may reduce product compatibility.

Supplier	Product Name	Date Tested	Website	Telephone
AVATEC Inustrieprodukte GmbH Lubricant Supplier	Polymer S EPDM Siloxane Lubricated	01.10.2005		Germany +49 2861 90297-0
Barbe	Silicone free mounting lubricant	15.2.06	www.barbe.de	Germany +49 611 182920
CGP Chemicals Ltd	CGP 2321 Profile Coating	15.2.06	www.cgpchemicals.co.uk	UK:-01283511101 sales@cgpchemicals.co.uk
Deflex-Dichtsysteme	EPDM gasket with glycerol	01.12.2002	www.deflex.de	Germany 0203 31808-0
	EPDM + Talc	01.12.2002		
	Any TPE/EPDM Gasket with Deflex-Gummispray A1	Q2 08		
DJ Profiles	EPDM with glycerol	27.01.2003	www.trelleborg.com	UK 01952 290303
Fa. Dätwyler Inter GmbH	EPDM with special slip-polymer	01.12.2002	www.daetwyler.ch	Germany 049 50459109-22; Switzerland 041 875 1122; UK Swindon, France Estreé, Italy Milano, Poland Pruszkow
Fa. M.O.L. Gummiverarbeitung	EPDM with lubricant	01/2005	www.mol-seals.de	Germany 49 (0) 4441 - 9245-0
Fabprene	Glycerol Lubricated EPDM	01.01.2006	www.fabprene.co.uk	UK +44 (0)161 342 6902.
FinnProfiles Oy	TPE 57SHA	13.11.2002		Finland 08 817 6090
Flevo Rubber	Talc Lubricated EPDM 60	01.11.2005	www.flevo-extrusion.nl	Netherlands +31 320 233007
	Talc Lubricated EPDM 70			
	Talc Lubricated EPDM 80			
	Promol Lubricated EPDM 60			
	EPDM 60 Shore with HC Glide 811 lubricant	10.2006		
	EPDM 70 Shore with HC Glide 811 lubricant			

1.2 Coated / Lubricated Gaskets *

- Note: Lubricated / Coated samples sent for testing showed little or no hydrophobic leaching and therefore passed tests. Due to the nature of these lubricants they must be applied by the manufacturer and be fully dried prior to sue. Under no circumstances should additional lubricant be applied on site.**

Check with supplier that the amount of lubricant applied to the gasket has not change composition/ increase, as this may reduce product compatibility.

Supplier	Product Name	Date Tested	Website	Telephone
Goldschmidt GmbH (Lubricant Supplier)	TPE Gasket with Siloxane based Slip Coating Getren P3300	01.12.2002	www.getren.com	Germany +49 201173 2570
GTG Gummitechnik W. Bartelt	EPDM with slip coating	01.12.2002	www.gtg-group.com	Germany +49 (0) 9073 9507-0
	EPDM gasket with organic lubricant	01.12.2002		
	EPDM gasket with water based lubricant	01.12.2002		
IEB Gummitechnik Eisele & Co	TPE gasket with lubricant Getren P 3300	01.12.2002	www.ieb-gummitechnik.de	Germany +49 6061 9597-0
	TPE gasket with soapy water	01.12.2002		
Industrial Flexo	EPDM gasket with E5 lubricant. Sample ID: 22.95.8419.1	01.10.2003	www.avon-rubber.com	UK +44 (0) 1225 861100
Leeser GmbH	EPDM with slip coating	06/2008	www.leeser.de	Tel + 49 2433 4508 – 247
Linear	TPE 4058-101	02.09.2002		UK 01325 375126
Mehren	Mehren EPDM gasket with talc	18.06.2002	www.mehren.no	Norway 0337 85500
Meteor Gummiwerke K. H. Bädje GmbH & Co. KG	Colourlock AC 600 EPDM	01/2005	www.meteor.de	Germany +49-(0)5067/25-0
Phoenix Benelux BVBA	EDPM with slip coating	01.08.2004	www.phoenix-benelux.com www.phoenix-dt.de	Belgium +32 (0) 3 206 7420 Germany +49 3622-633494
Profile 22	TPE Silicone	15.01.2003	www.profile22.co.uk	UK 01952 290910
Saargummi	Nova Strip	06.11.2002	www.saargummi.de	Germany 0687469-0

1.2 Coated / Lubricated Gaskets *

- Note: Lubricated / Coated samples sent for testing showed little or no hydrophobic leaching and therefore passed tests. Due to the nature of these lubricants they must be applied by the manufacturer and be fully dried prior to sue. Under no circumstances should additional lubricant be applied on site.**

Check with supplier that the amount of lubricant applied to the gasket has not change composition/ increase, as this may reduce product compatibility.

Supplier	Product Name	Date Tested	Website	Telephone
Savatech	STL 50410 glycerol EPDM	13.12.2002	www.savatech.co.uk	UK 020 82883508
	STL 50410G glycerol EPDM	13.12.2002		
	STL 50410 talc (EPDM)	13.12.2002		
	STL 50410G talc (EPDM)	13.12.2002		
Any TPE/EPDM Schill + Seilacher AG Lubricated Gasket	Struktol VP 5289 Siloxane Based Lubricant	1.2007	www.struktol.de	Herr Mille Tel. Germany +49 3642-721 659
Semperit	EPDM with slip coating	14.02.2002	www.semperit.at	Germany 0991 27020; Austria 02630 310 214; France 01 30 25 87 25; Italy 0425 410 680 (Roiter); Sweden 08 88 04 20; Netherlands 033 245 8324; UK 0118 921 4801
	EPDM gasket with glycerol	14.02.2002		
	EPDM + Talc	14.02.2002		
Slottseal Extrusions Ltd	Slottseal gasket TPE	05.11.2002		UK 01604 759535
Synseal	TPE gasket with glycerol	01.02.2004	www.synseal.com	UK 01623 443200
	VTP TPR Gasket Coated with Synseal Slip Coating	10.2006		
TPP	Easy Set EPDM and Glide Polymer	01.10.2005	www.tpp-bv.com	Phone 0031 (0)578-677330

1.2 Coated / Lubricated Gaskets *

- Note: Lubricated / Coated samples sent for testing showed little or no hydrophobic leaching and therefore passed tests. Due to the nature of these lubricants they must be applied by the manufacturer and be fully dried prior to use. Under no circumstances should additional lubricant be applied on site.**

Check with supplier that the amount of lubricant applied to the gasket has not change composition/ increase, as this may reduce product compatibility.

Supplier	Product Name	Date Tested	Website	Telephone
Trelleborg	EPDM with slip coating	01.08.2004	www.trelleborg.com/industriaprofiles	Sweden 0370 48191; UK 0121 352 3873; Norway 0648 66160; Finland 03314 30900; Denmark 075 64 72 52; France 0556 70 25 95; Belgium 055 20 67 64; Germany 0626 192350; Poland 042 613 6322; export from Sweden +46 381 60519
	Trelleborg EPDM extruded gasket	18.12.2002		
	Plastmo 6805077 EPDM	01.08.2004		
	Plastmo 6805079 EPDM	01.08.2004		
	Trelleborg extruded gasket with talc	01.09.2002		
	EPDM gasket with potato starch	01.09.2002		
Vredestein	Tauchmittel 525A(EPDM) + glycerol	22.01.2003	www.vredestein-sealings.com	NL 0317 399 256
Any TPE/EPDM Getren 3300 Lubricated Gasket	Getren 3300 Lubricated Siloxane Based Lubricant	01/2005	www.getren.com	Germany +49 201173 2570
J Allcock and Sons Ltd	Allcosil Lubricant on approved gasket	1/7/2007	www.allcocks.co.uk	UK 0161 223 7181

1.3 Dry EPDM Gaskets

Supplier	Product Name	Date Tested	Website	Telephone
Fa. Dätwyler Inter	Dry EPDM Dry EPDM	01.12.2002 Q1 2009	www.daetwyler.ch	Germany 049 50459109-22; Switzerland 041 875 1122; UK Swindon, France Estreé, Italy Milano, Poland Pruszkow
Flevo Rubber	Dry EPDM 60 Dry EPDM 70 Dry EPDM 80	01.11.2005	www.flevo-extrusion.nl	Netherlands +31 320 233007
Gruppo BMP	Dry EPDM 70	27.01.2009	www.bmp.it	Italy 0331 57391
GTG Gummitechnik W. Bartelt	Dry EPDM gasket	01.12.2002	www.gtg-group.com	Germany +49 (0) 9073 9507-0
Industrial Flexo	Dry EPDM gasket 70. Sample ID: 22.80.8016.0	01.10.2003	www.avon-rubber.com	UK +44 (0) 1225 861100
Mehren	Peroxide EPDM gasket. Sample ID: 22.95.8419.0 Mehren Gasket	01.10.2003 18.06.2002	www.mehren.no	Norway 0337 85500
Reddiglaze	Reddiglaze EPDM	17.09.2002	www.reddiglaze.com	UK 01905 795432 (also export into Europe)
Rehau AG	Wooden frame gasket Dry EPDM gasket	17.09.2002 13.12.2002	www.rehau.com	Germany 09131 92 5362
Semperit	Dry EPDM 2631 and 2610	10.10.2006	www.semperit.at	Germany 0991 27020; Austria 02630 310 214; France 01 30 25 87 25; Italy 0425 410 680 (Roiter); Sweden 08 88 04 20; Netherlands 033 245 8324; UK 0118 921 4801
Trelleborg	Trelleborg Extruded Gasket	01.09.2002	www.trelleborg.com/industria lprofiles	Sweden 0370 48191; UK 0121 352 3873; Norway 0648 66160; Finland 03314 30900; Denmark 075 64 72 52; France 0556 70 25 95; Belgium 055 20 67 64; Germany 0626 192350; Poland 042 613 6322; export from Sweden +46 381 60519
Tremco	Peroxide EPDM 65	09.01.2003	www.tremcoeuropa.com	UK 01753 691696; Germany 02405 426662; Netherlands 055 533 6062; Sweden 031 57 00 10; Finland 095 499 4500; France 01 34 58 57 00; Italy 02 98 281854; Norway 02 32 71 70
Veka Ltd	70 Duro EPDM	09.01.2003	www.vekauk.com	UK 01282 716611

	60 Duro EPDM	09.01.2003		
	SCR 900-70	09.01.2003		
	VEKA Extruded EPDM	15.01.2003		
Wilfried Becker GmbH	04150136, 04150138 and 04150145	1.5.2007	www.baulager.de	Germany 02131758100

1.4 Dry TPE Gaskets

Supplier	Product Name	Date Tested	Website	Telephone
Euroseal	Euroseal Blue Label Gasket	10.06.2003	www.euroseal.co.uk	UK 0121 344 4100
FinnProfiles Oy	TPE 57SHA	13.11.2002		Finland 08 817 6090
Linear	TPE 4100-101	02.09.2002		UK 01325 375126
	TPE 4058-101	02.09.2002		
Profile 22	TPE Dry	15.01.2003	www.profile22.co.uk	UK 01952 290910
Reddiglaze	Reddiglaze TPR	02.09.2002	www.reddiglaze.com	UK 01905 795432 (also export into Europe)
Slottseal Extrusions Ltd	Slottseal Gasket	01.11.2002		UK 01604 759535

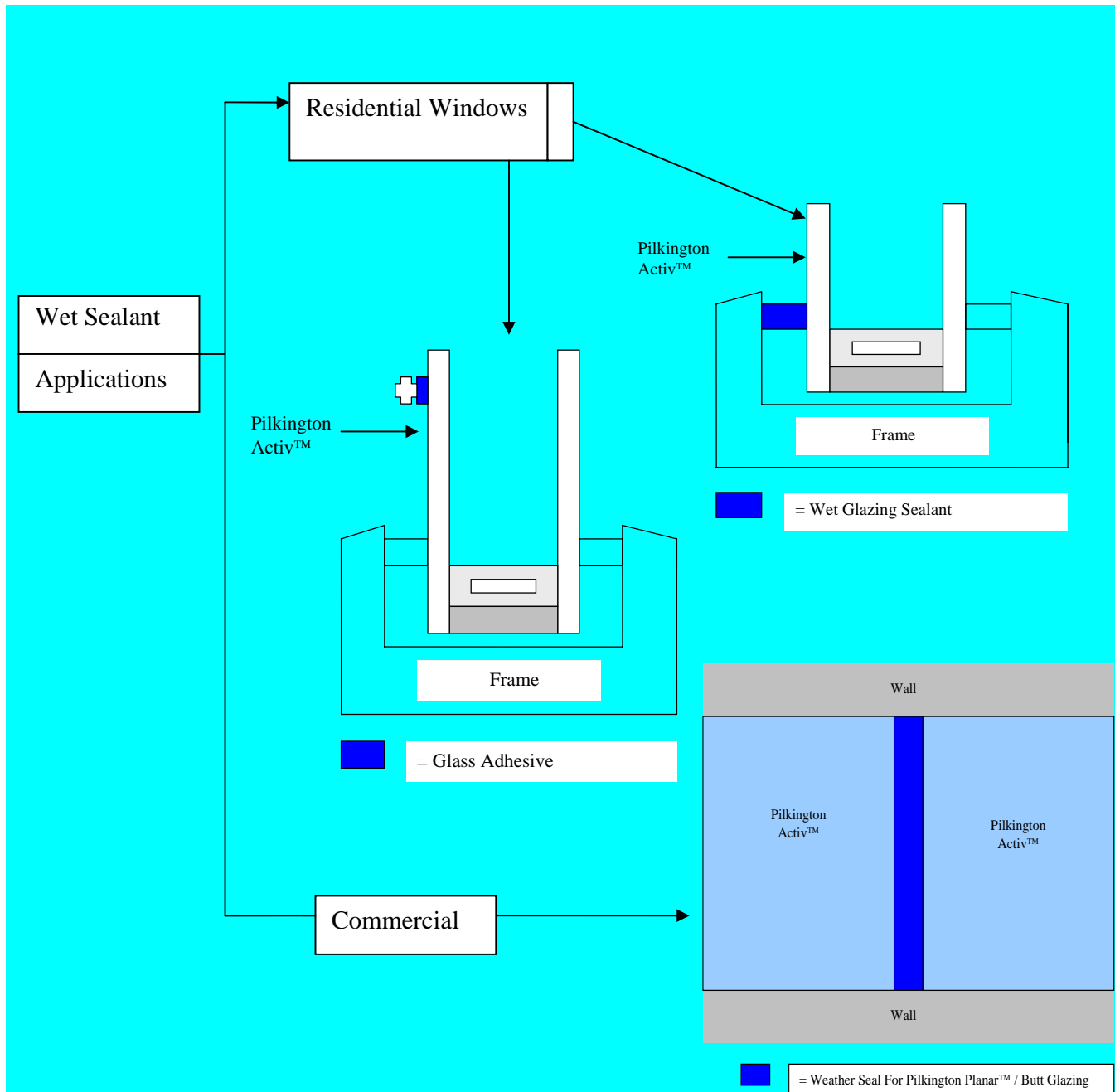
1.6 Glazing Tape / Material Systems

Supplier	Product Name	Date Tested	Website	Telephone
3M	Acrylic Foam 4941 P	14.05.2003	www.mmm.com	Global +1-888-364-3577
	Acrylic Foam 4613	14.05.2003		
	Pressure Sensitive Tape-5952F	14.05.2003		
	4408 A-30	01.02.2005		
Adshead Ratcliffe	glazing tape	26.03.2003	www.arbo.co.uk	UK 01773 821215
	sponge glazing tape	26.03.2003		
Biolink - from UK Industrial Tapes Ltd	ProLink 1500R, FoamLink 1603H	17.04.2003	www.ukindustrialtapes.co.uk	UK +44 (0)191 487 3255
Hodgson Sealants	Profile Tape 8x4	01.12.2002	www.hodgson-sealants.co.uk	UK 01482 868321
	Foam Sekure XD (for upvc or timber)	01.12.2002		
	Flexi Bond 15x3	01.12.2002		
	Flexi Strip 15x5	01.12.2002		
	Colourglaze Putty	10.2006		
	Butyl Glazing compound			
	Rapid Set Putty			
	Linseed Oil Putty (Check Application Compatibility)			
Multipurpose Putty				
Illbruck Sealant Systems Uk	Alfas Glasket (Glazing Tape)	10.06.2003	www.illbruck.com	UK +44 (0)191 419 0505
	Alfas SGT PVC - DSX (Security Glazing Tape)	10.06.2003		
	Alfas SGT PVC - DST (Security Glazing Tape)	10.06.2003		
	Alfas SGT PE - DSP (Security Glazing Tape)	10.06.2003		
	Alfas SGT Super (Security Glazing Tape)	10.06.2003		
Kawo	KAWO Vorlegeband (Art.Nr.4060905)	01.08.2004	www.kawo.de	Germany +49 (0) 5121 76 1935
	KAWO Vorlegeband (Art.Nr.4060905)	01.08.2004		
Metal Technology	Butyl backed foil tape – HR5064	06/2008	www.metaltechnology.com	UK 02894 487777 (Fax 02894 487878)
Scmid Baukunststoffe	Butyl Tape	01.01.2005	www.scmid-baukunststoffe.de	Germany +49 (0) 35341 10 000

1.6 Glazing Tape / Material Systems

Supplier	Product Name	Date Tested	Website	Telephone
Shand Higson	5189/4 (Security Glazing Tape)	17.04.2003	www.shandhigson.co.uk	UK +44 (0)151 207 5661
Tremco	Tremco 440	02.09.2003	www.tremcoeuropa.com	UK 01753 691696; Germany 02405 426662; Netherlands 055 533 6062; Sweden 031 57 00 10; Finland 095 499 4500; France 01 34 58 57 00; Italy 02 98 281854; Norway 02 32 71 70
	Tremco SST-800			
	Tremco NS tape			
	Tremco Butyl Tape			
	EPDM and Neoprene sponges			
	Polyshim			
Tesa AG	Tesaband 50560	10.2006	www.tesa.de	Germany +49 40 4909 3400
	Tesaband 50030 PVO			
	Tesaband 50550-60 Träger 7/06			
UK Industrial Tapes	ProLink 1500R	17.04.2003	www.ukindustrialtapes.co.uk	UK +44 (0)191 487 3255
	FoamLink 1603H	17.04.2003		
Venture Tape	VG132, VG116, VG108, VG1316 (Security Glazing Tape)	22.04.2003	www.venturetape.com	UK +44 (0) 1327 876555

2. Wet Glazing System Materials - Residential and Commercial Applications



Please Note: If there is a straightforward pathway for water run-off between the caulking and the Pilkington Activ™ surface, the caulking material used should NOT be silicone. Alternatives include Silicone hybrids, MS Polymers and polyurethanes.

2.1 Wet Glazing Sealants – SCG TEC

SCG-TEC based sealants have been specifically developed for use with Self Cleaning Glass. These products offer improved UV resistance and durability compared with MS Polymer based sealants and are certified to external standards (e.g. ISO 11600, further details are available from the individual sealant suppliers).

As with all approved sealants these materials have been tested for compatibility with Pilkington Activ™. These sealants are suitable for both residential and commercial applications. As with all sealant applications, checks with the sealant supplier that the material is suitable for the intended application should be undertaken.

Use	Supplier	Product Name	Date Tested	Website	Telephone
Residential / Commercial Sealant	Dow	Dow Corning 757	1.12.2007	www.dow.com	<p>UK – Contact UK Distributor Geocel Tel. 01752 202060 - www.geocel.co.uk</p> <p>Austria, Germany, Poland, Switzerland & Eastern Europe DOW CORNING GmbH Tel: +49(0)611 237 906 Fax: +49(0)611 237 603</p> <p>France and North Africa DOW CORNING France S.A. Tel: +33(0)4 72 84 13 60 Fax: +33(0)4 72 84 13 79</p> <p>Italy & Eastern Mediterranean Countries DOW CORNING S.p.A. Tel: 39 02 98832 1 Fax: 39 02 9880483</p> <p>Russland, CIS DOW CORNING Representation Office Tel.: +7 495 783 6648 Fax: +7 495 783 6652</p> <p>Spain and Portugal DOW CORNING Iberica S.A. Tel: +34(0)93 405 12 15 Fax: +34(0)93 405 38 94</p> <p>Turkey Dow Corning Liaison Office Turkey Tel: +90.216.4677645 (211) Fax: + 90.216.4673909</p> <p>All other countries Please contact the Dow Corning Technical Information Center on: Tel. +49 611 237 778 eutech.info@dowcorning.com</p>
Residential / Commercial Sealant	Merz and Benteli AG	Gomastit VG27	10.10.2006	www.merz-benteli.ch	<p>Tel.: +41 (0)31 980 48 48 Fax: +41 (0)31 980 48 49</p>
Residential / Commercial Sealant	ATE Distribution	Sealclean	1.11.2008		Tel. +33 145 60 43 14
Residential/ Commercial Sealant	Soudal	SMX 505	31.05.2005	www.soudal.com	UK +44 1827 261092
Residential/ Commercial Sealant	Dana Lim	SCG Sealer 521	26.11.2008	http://www.danalim.dk	Contact via website

Please note, Henkel have withdrawn their SCG TEC sealant which is no longer commercially available

2.2 Wet Glazing Sealants – MS Technology

MS polymer based sealants have been tested for compatibility with Pilkington Activ™. Suitability of these sealants for the intended application must be discussed with the individual manufacturer to ensure the sealant is applicable for the intended application.

Use	Supplier	Product Name	Date Tested	Website	Telephone
Residential Sealant	Soudal	Soudaseal 4 all paint	01.01.2005	www.soudal.com	UK +44 1827 261092
Residential Sealant	Den Braven	Hybriseal 2PS (also known as Hercuseal 305). NB - coloured versions (white, black, grey and brown) only	03.01.2003	www.denbraven.nl	Netherlands 0162 49 1000, Belgium 02 358 3556; Germany 05481 941510; Poland 0618 143504; Greece 1 765 1365; Austria 0043 263 341 399; Italy 0461 534 388; UK (Siraflex) 01226 771600; France 03 44 91 68 68; Denmark 0755 81230; Finland 0201 980610
Residential Sealant	Fenotherm	Fenotherm MS Sealant	1.11.2008		Fa. Fenoplast Fügetchnik GmbH
Residential Sealant	KENT (Premier Industrial Ltd)	KENT Rotabond 2000 with KENT MS Prep Primer	01.05.2001	www.kenturope.com	Belgium +32 (0)2 725 93 93; Denmark +45 4917 7888; France +33 1 30 95 40 60; Germany +49 02154 956736; Italy Free on 800 011 780 or +39 011 64 77 311; Netherlands +31 (0) 499 331919; Spain +34 91 883 50 54; Sweden +46 (0)44 700 51; UK +44 (0) 1403 213349 KENT Distributors: Austria (Hubert Pokorny GmbH-) +43 2236 64939; Croatia (Pobus d.o.o) +385 513 323906; Estonia (Ou Kevamer Av) + 372 44 25 892; Finland (Jasper Oy) +35 833 450 580; Norway (C Frimann-Dahl AS) +47 22 51 17 00; Poland (Luna Polska Z.o.o) + 48 32 208 6541; Slovenia (AT Team D.o.o) +386 15193333; Switzerland (Halco Trade) +41 14 348040
Residential Sealant	Tremco	Mono 321	15.11.2002	www.tremcoeuropa.com	UK 01753 691696; Germany 02405 426662; Netherlands 055 533 6062; Sweden 031 57 00 10; Finland 095 499 4500; France 01 34 58 57 00; Italy 02 98 281854; Norway 02 32 71 70
Residential Sealant	EGO	EGO MS808	1.7.2006	www.ego.de	EGO Dichtstoffwerke GmbH & Co. KG, Lilienthalstrasse 7,82205 Gilching Germany +49 08105 217-0
Residential Sealant	Adolf Würth GmbH & Co. KG	Würth Sabesto Aktivglas Dichtstoff	10.10.2006	-	Adolf Würth GmbH & Co. KG. Künzelsau Germany
Residential Sealant	Ramsauer GmbH	Glasdicht 300	06/2008	www.ramsauer.at	Tel +43 6135 8205 - 0
Residential Sealant	Ultraframe	ADV007	06/2008	www.ultraframe-conservatories.co.uk	Tel (+44) 01200 443311 Fax:- (+44) 0870 414020

2.3 Tapes and Adhesives

Use	Supplier	Product Name	Date Tested	Website	Telephone
Georgian Bar Tape	Illbruck Sealant Systems Uk	Alfas GBT General Bonding Tape	10.06.2003	www.illbruck.com	UK +44 (0)191 419 0505
		Alfas FAT Foamed Acrylic Tape	10.06.2003		
Tape	Kent Industrial	Butyl HT Ivory	10.10.2006	www.kenturope.com	Belgium +32 (0)2 725 93 93; Denmark +45 4917 7888; France +33 1 30 95 40 60; Germany +49 02154 956736; Italy Free on 800 011 780 ; Netherlands +31 (0) 499 331919; Spain +34 91 883 50 54; Sweden +46 (0)44 700 51; UK +44 (0) 1403 213349
Georgian Bar Tape	Technibond	Technibond double sided tape	27.06.2002	www.technibond.co.uk	UK 01628 642800
Georgian Bar Tape	Shand Higson	5300	17.04.2003	www.shandhigson.co.uk	UK +44 (0)151 207 5661
Glass Adhesives	Sika	Sikaflex 11FC	25.02.2003	www.sika.co.uk	01707 39 44 44
		Sikafast 5215	24.02.2003		
Glass Adhesives	Bostik	Bostik Hybrid 2640	25.02.2003	www.bostik.com	Austria 05425 801-0; Belgium 2 370 20 62; Denmark +45 448 41 500; France 01 64 42 12 12; Germany 069 8900 10; Ireland 01840 14 61; Italy 02 24 10 93 1; Netherlands 165 590 590; Spain 34(93)586 0203; Switzerland 05425 801-0; UK 0116 251 0015
		Bostik Hybrid 2620	04.05.2004		
		Uretan 2637	25.02.2003		
		Glasil Super	04.05.2004		
Glass Adhesives	Würth	Zebra MS Polymer Adhesive	25.02.2003	www.wurth.com	Austria +43 2743 70700; Belgium +32 14 445566; Denmark +45 79 323232; Finland +358 19 7701; France +33 3 88645300; Germany +49 7940 15-0; Ireland +353 61 412911; Italy +39 0471 828111; Netherlands +31 73 6291911; Norway +47 67 062500; Poland +48 22 8119041; Sweden +46 19 351000; Switzerland +41 61 7059111; UK +44 (0)1483 412800

Note - Glass adhesives are not a glazing sealant

2.4 Caulking Materials

Please Note: If there is a straightforward pathway for water run-off between the silicone caulking and the Pilkington Activ™ surface, the caulking material should NOT be silicone. Alternatives include MS Polymers and polyurethanes. The product listed below has been tested and is compatible with Pilkington Activ™ as a sealant to be used between window frame and brickwork, concrete or cladding material. To mount the glass into a window frame, other sealant types are available. Further details on application suitability is available from the supplier.

Product Type	Supplier	Product Name	Date Tested	Website	Telephone
MS Polymer	Soudal	Soudaseal 215LM	11.03.2004	www.soudal.be	Belgium +32 14 42 42 31
MS Polymer	Würth Denmark	MS20 Multifuge	1.7.2007	www.wuerth.dk	+45 79 323 242

3. Commercial Glazing Systems

Supplier	Gasket Name	System Name	Date Tested	Website	Telephone
Schüco	224 063 (with yellow stripe)	Window systems: Royal S 45, 50, 50N, 65, 65AK, 70B and 70BS	07.03.2003	www.schueco.de	Germany 0049 5 21 7830; UK 01908 282 111
	224 606	Curtain Walling systems: FW50 ⁺ , FW60 ⁺ , FW50 ⁺ .1, FW60 ⁺ .1	07.03.2003		
Schüco can offer alternative lubricants with their systems. To avoid misunderstandings please note on your order that you want to use Pilkington Activ™.					
Heywood Williams	1 broad, 1 narrow, Aluminium gaskets	Series 23 Commercial Window Systems, Series 24 Commercial Window Systems, Series 48 Curtain Walling Systems. Modular 70 Sloping Roof Glazing System.	07.03.2003	www.heywoodwilliam s.com	UK 01484 487200
Technal Viking	FX607G	Fxi Casement Window Suite: FXi 46, FXi 52, FXi 65	07.03.2003	www.technal.co.uk	UK 0113 2961400
	MC6906	MC Curtain Wall range (fully framed systems)	07.03.2003		

Supplier	Gasket Name	System Name	Date Tested	Website	Telephone
Rehau	Rehau Weldable dry gasket (possibly known as Rauprene)		07.03.2003	www.rehau.com	Benelux, Denmark, Finland, Norway, Sweden: 09131 925 392; Switzerland: 09131 925 483; France: 0033 38 70 55 807; UK: 0044 19 89 762641; Poland: 0048 618 49 8451
Santoprene	691-62W221 (beige)	For aluminium and wooden windows	22.05.2003	www.santoprene.com	France +33-1-41-45-77-20; Germany +49-221-74907-0; Italy +39 02 8803452; Poland +48 22 6063972; Spain +34 936 002 150; Sweden +46-31-63-82-90; UK + 44 1162 896122
	8691-58W805 (range of light colours)		22.05.2003		
	8221-60 (white)		22.05.2003		
	8221-70 (white)		22.05.2003		
DRL	Grey Silicone Gasket	DRL Curtain Wall	23.05.2003	www.oskomera.nl/DR	UK (0)1684 853500
Kawneer	953-272 (R5961)	1202 curtain wall, 1203 Slope glazing, and 1612 curtain wall systems.	20.03.2003	www.kawneereurope.com www.alcoa.com	France + 33 (4)67 87 77 55; Germany + 49 2374 936 0; Ireland + 353 1 450 8809; Netherlands + 31 (0)341 464611; UK + 44 (0)1928 502500; USA +1 770 449-5555
	271-921		01.04.2005		
	953-273 (R5960)		20.03.2003		
Sapa	TPE non-lubricated gasket	W274E	01.04.2005	www.sapagroup.com/uk/buildingsystems	
	TPE non - Lubricated	105/87, 105/88, 105/89, 105/90, 105/91, 105/135, 105/140, 105/166	01.08.2005		
	TPR	Gasket ref. RG110	10/2006		

All of the lubricated gaskets have been tested for compatibility with Pilkington Activ™ in the vertical orientation. Some of the gaskets that are lubricated with a silicone emulsion have occasionally shown very low levels of leaching (<2cm). However, due to the longer residence time of water on the gasket, there is the potential for an increased level of leaching if these same gaskets used in sloped glazing.

Under no circumstances should extra lubricant be used during installation.

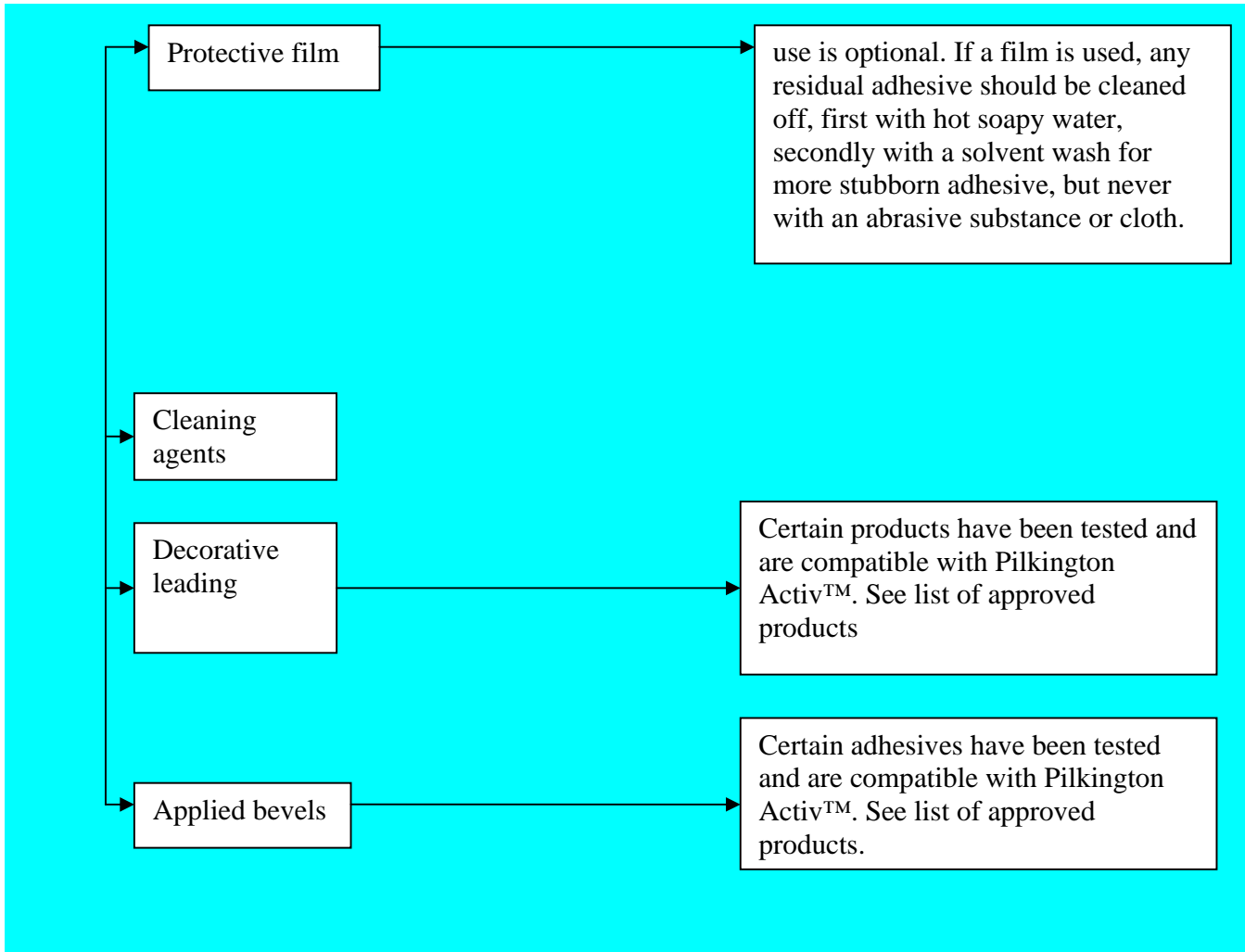
Please check with your supplier to ensure gaskets lubricated with silicone emulsion are NOT used in sloped installations.

In addition to the above specific systems, there are a number of suppliers who can supply non-silicone based gaskets, if they are specifically requested. This service is available from the German offices but can be discussed with your local representative. Please put on the order "Non-silicone gaskets required for use with Pilkington Activ™."

These suppliers are listed below, along with their contact phone number in Germany.

Supplier	Website	Telephone
Aluplast	www.aluplast.de	+49 (0) 7243 7742421
Brüggmann	www.brueggmann.de	+49 (0) 8245 520
Gealan	www.gealan.com	+49 (0) 9286 774130
Gutmann	www.gutmann-aluminium.de	+49 (0) 9141 992621 +49 (0) 9194 992622
Heroal	www.heroal.de	+49 (0) 5246 507238
Hueck/Hartmann	www.eduard-hueck.de	+49 (0) 2351 1510
Klima Flex	www.klimaflex.de	+49 (0) 7171-97614-59
Kömmerling, KBE, Trocal (Profine)	www.profine-group.com	+49 (0) 6331 562598
Raico	www.raico.de	+49 (0) 8265-911-0
Rehau	www.rehau.com	+49 (0) 9131 925628
Reynaers	www.reynaers.com	+49 (0) 2043 96400
Salamander	www.brueggmann.de	+49 (0) 8245 520
Schüco	www.schueco.de	+49 (0) 521 783864
Solarlux	www.solarlux.com/	+49 (0) 5402-400-0
Sykon	www.sykon.de	+49 (0) 5223-9818-18
TS Aluminium	www.ts-alu.de/	+49 (0) 4943-9191-1
Veka	www.veka.de	+49 (0) 2526 294690 +49 (0) 2526 294620
Wicona	www.wicona.de	+49 (0) 731 3984174

4. Miscellaneous



4.1 Protective Films

Supplier	Product Name	Date Tested	Website	Telephone
Nava Center Oy	Navaflex 15-1	01.12.2002	www.navacenter.com	Finland +358 (0)8 443 596
Nitto	AP4058RL	01.12.2002	www.nittoeurope.com	France 0297 46 92 00 (MEI)
Novacel	4331	01.03.2005	www.novacel.fr	UK +44 (0)1582 583294
Shand Higson	2903	17.04.2003	www.shandhigson.co.uk	UK +44 (0)151 207 5661
Spraylat	Glasstrip UV Resist PC100	01.12.2004	www.spraylat.co.uk	UK +44 (0)1536 408409
	Glasstrip 785-3	01.01.2006		
White Mango Enterprises	PAW 55	01.06.2003	www.whitemango.com	UK +44 (0) 20 8861 9486

Many have been tested, and in general any film with an acrylic adhesive should be compatible.

4.2 Leading / Bevels

Supplier	Product Name	Date Tested	Website	Telephone
Regalead	Natural 9mm Oval Antique 9mm Oval	26.02.2003	www.regalead.co.uk	UK 0161 946 1164
Decra Led	any lead applied with the adhesives listed below	01.03.2004	www.decraled.co.uk	Poland +48 (0 prefix 55) 235 19 25; UK 0161 368 4491; USA +1 608 742 8386
	Premium Lead Strip Adhesive	01.03.2004		
	Alpha Lead Strip Adhesive	01.03.2004		
	Hi-Tac Lead Strip Adhesive	01.03.2004		
Regalead	RB 334 bevel. Applied by UVTek 410 Visible Light Curing	26.02.2003	www.regalead.co.uk	UK 0161 946 1164
	RB 334 bevel. Applied by UVTek FC 700 UV Curing	26.02.2003		
	RB 334 bevel applied by UVTek 116 UV Curing	26.02.2003		
Decra Led	Permabond	01.03.2004	www.decraled.co.uk	Poland +48 (0 prefix 55) 235 19 25; UK 0161 368 4491; USA +1 608 742 8386
Remco Chemie	Remcolin Siebreiniger Screen Print Cleaner	01.12.2002		Germany 062 216 4850

4.3 Specialist Processing

Product Type	Supplier	Contact	Website	Telephone
Curved Toughened, Concave & convex, Single & IGU	Toughglass	emmanuelb@toughglass.com	www.toughglass.com	UK + 44 (0)28 4176 0918; ROI + 353 (0)1 466 2560; Export + 353 (0) 86 386 2366
Sag Bending, toughened	Novaglaze	sales@novaglaze.co.uk	www.novaglaze.co.uk	UK +44 (0)845-850-2363
Sag Bending, annealed	Jean Gobba	jean.gobba@gobba.com	www.gobba.com	France +33 4 74 05 98 00

4.4 List of Approved Cleaning Agents

Ajax 3-Fach Aktiv	Kent Glas Kleen 40-1 Superkonzentrat	Windowlene Spray (Original)
Ajax Antistatic	Kent Glas Kleen Netoie Vitres	Windowlene Wipes For Glass and Shiny Surface
Ajax Citrofrisch	Kent Rotanium Soft Surface Cleaner (article No. 83950)	Zack Glasreiniger
Ajax Fete Des Fleurs	Kent Surface Cleaner (article No: 83926)	Wurth Cleaners Available from:- Winzer Würth Industrial Ltd, Catteshall Lane, Godalming, Surrey, GU7 1NP Tel; 01483 412800 Fax; 01483 412805 E-mail; sales@winzerwurth.co.uk
Ajax Glass Universal Double Action	Kristall Fenster	
Ajax Glasrein Zitro-Frisch	Mr Muscle Window Cleaner	Active glass cleaner (No. 890.25)
Ajax Kristall	Nationwide Glass Cleaner	Ready diluted glass cleaner (No. 892.332.840)
Ajax Streak Free Professional Glass Cleaner	Nova Window Cleaner	Cleaner Type 10 (No. 892.100.10)
Ajax Tip-Top	Ritec Glass Cleaner	Cleaner Type 20 (No. 892.100.11)
Ajax Window Cleaner	<u>Brand names of Sidolin cleaners from Henkel:</u>	
Bohle Glasreiniger BO 5107800	~ Sidolin 2 Phasen (DE)	
CIF Window Wipes	~ Sidolin Streifenfrei Aktivschaum (DE)	
Cleani Glass Universal	~ Sidolin Streifenfrei Cristal (DE)	
Cosmofen 10 and 20 (with water rinse)	~ Sidolin Streifenfrei Zitrus-Frisch (DE)	
Decra Clean	~ Instanet Ruiten / Instanet Ruiten Citron (B, NL)	
Denk Mit Glasreiniger	~ Clin Windows / Clin Universal (Austria, Eastern Europe)	
Domol Glasklar	~ Bref Vitre / Bref Vitre Citron (F)	
Elite Force 2000 UPVC Cleaner	~ Bref Multiuso (IT)	
Elite Force Extra Strength	~ Tenn Crystales e Superficies / Tenn Multiusos (S)	
Ettore Squeegee Off (concentrate)	~ Sonasol Vidros / Sonasol Vidos e Superficies (Pt)	
Fenosol S10 (For PVC)	~ Sidolin Christal	
Frosch Spiritus Glas-Reiniger	~ Sidolin Zitrus	
Graffiti Wipes (Ritec International)	Safeway Vecta Window Cleaner	
Gunge Wipes (Ritec International)	Spontex Glass Wipes	
HG glazenwasser, HG le lave vitre des Pros	Spray Clean Glass Universal	
HG window cleaner, HG Fensterputzer	UVTek Professtional Glass Cleaner	
	Wilko Window Cleaner	

IMPORTANT NOTICE

The use of silicone removers / abrasive cleaners on Pilkington Activ™ is considered as a remedial action which should only be undertaken after consultation with the Pilkington Technical Advisory Service. Due to the nature of these materials, work should only be undertaken after reading the manufacturers' relevant safety literature. Pilkington cannot guarantee the effectiveness of the treatment or the effect the treatment will have on the coating as this will be severely affected by factors outside Pilkington's control, for example the nature and amount of the deposit.

The use of silicone eaters will not solve the problem if the original source of contamination is still present.

Di Aqua Forte Silicone Eater

Radora Brillant Fensterglanz – Slightly Abrasive -Contact: Klaus Messmer + 497531 7 71 36

5. Available Products with Pilkington Activ™

5.1 Pilkington Activ™ Products

Pilkington Activ™ Clear – 4mm, 6mm, 8mm, 10mm

Pilkington Activ™ Blue - 4mm, 6mm, 10mm

Pilkington Activ Suncool™ 70/40 - 6mm, 8mm, 10mm

Pilkington Activ Suncool™ 70/35 - 6mm, 8mm, 10mm

Pilkington Activ Suncool™ 66/33 - 6mm, 8mm (from April 09)

Pilkington Activ Suncool™ 50/25 - 6mm, 8mm (from April 09)

Pilkington Activ Suncool™ Blue 50/27 - 6mm, 8mm, 10mm

Pilkington Activ Suncool™ Silver 50/30 - 6mm, 8mm, 10mm

Pilkington Activ Suncool™ 40/22 - 6mm, 8mm, 10mm

Pilkington Activ Suncool™ 30/17 - 6mm, 8mm, 10mm

Pilkington Activ™ Neutral - 4mm, 6mm

Pilkington Activ Optitherm™ S3 - various thicknesses and interlayers from 6.4 – 12.8

Pilkington Activ Optilam™ - various thicknesses and interlayers from 8.8 – 12.8

Pilkington Activ Optilam Suncool™ (coatings and thicknesses as above)

Pilkington Activ Optilam Therm™ S3 - various thicknesses and interlayers from 8.8 – 12.8

Pilkington Activ Optiphon™ - various thicknesses and interlayers from 8.8 – 12.8

Pilkington Activ Optilam™ K - various thicknesses and interlayers from 8.8 – 12.8

5.2 Possible Combinations

It is possible to combine Pilkington Activ™ with other products to obtain additional benefits. Please contact your IGU supplier.

Energy Management - Thermal Insulation	IGUs containing: Pilkington Activ™ with Pilkington K Glass™ as the inner pane Pilkington Activ™ with Pilkington Optitherm™ as the inner pane Pilkington Activ Optitherm™ as a dual coated product
Energy Management - Solar Control	Dual coated products: Pilkington Activ Suncool™ Range Pilkington Activ™ Neutral Activ on Tinted Glass : Pilkington Activ™ Blue Laminated products using: Tinted PVB interlayers (subject to thermal stress calculations) Tinted glass laminated to Pilkington Activ™ (as above)
Safety & Security	Pilkington Activ™ can be toughened or laminated
Noise Control	IGUs containing: Pilkington Optiphon™ can be made with Pilkington Activ™
Decoration	Obscuration: Pilkington Activ™ laminated to Pilkington Stippolyte™ Colouration: Pilkington Activ™ laminated with tinted PVB interlayers Tinted glass laminated to Pilkington Activ™
Fire Protection	Please contact our technical support staff on 01744 692000 for advice