



***Accurate and stable silicone release coatings  
on all types of paper, PET, HDPE or PP film.***



Cotek is a leading European manufacturer of specialist release paper and film, concentrating principally on two side and differential silicone coatings produced on the latest generation of solvent free coating machinery

Private family owned company  
established in 1964 and fiercely  
independent

Operating from a 50,000 SqM  
freehold site with separate  
manufacturing and warehouse  
facilities

ISO 9001:2008 quality  
management system

Proud to be a BRC/IoP certified  
company



# 100% Solids Solvent Free Thermal Cure and Aqueous Thermal Cure



- Main coating line
- 1650mm base width
- Single and double side
- Differential coatings continuously in-line
- Coating glassines, PE coated papers, PET films of 36 $\mu$  and above

# Inerted UV Cure Solvent Free

- 1320mm base width
- HDPE
- Metallised PET
- Blown coloured PP, MOPP and BOPP
- Standard easy and modified release
- Single and double side
- Down to 12 $\mu$  so far
- Contract coating of 38 $\mu$  aluminium foil



# Thermally Cured Aqueous

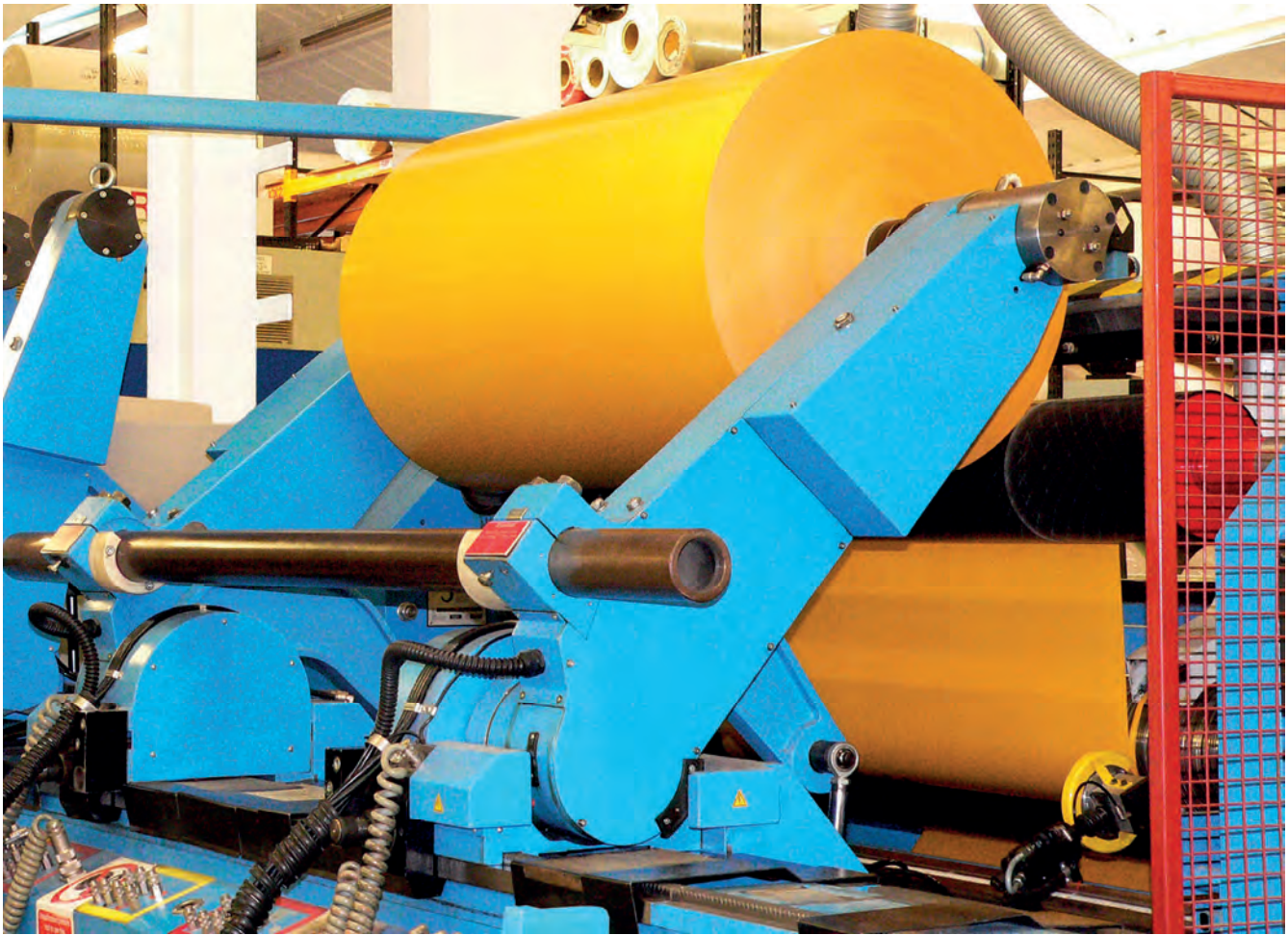
- 1085mm base width
- Double side
- Food and industrial papers



Pure vegetable parchment, greaseproof and kraft paper for:

- Bakery release
- Frozen food interleaving
- Unvulcanised rubber
- Garment transfers





## Finishing Equipment

- Three wide width slitters for jumbo reels up to 1600mm wide
- Four differential rewind slitters for coils down to 10mm
- 1400mm wide six reel stand sheeter
- Wollenberg guillotine
- Rise and fall cutting press for washers, shapes, etc.

## Clay Coated

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
CC140/ <i>n</i>	135	138	9.5	4.5	1100	1320	White	•	•	•	•	•	•	1 side siliconised
CC140/1X	135	138	9.5	4.5	1100	1320	White	•						1 side siliconised
2CC90/ <i>nm</i>	90	86	5.7	2.9	500	590	White	•	•	•	•	•	•	1 or 2 side siliconised
2CC130/ <i>nm</i>	128	135	9.5	5.0	930	1050	White	•	•	•	•	•	•	1 or 2 side siliconised
2CC130/1X	128	135	9.5	5.0	930	1050	White	•						1 side siliconised

## Sized

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
BB45/ <i>n</i>	45	52	3.5	1.5	320	420	White	•	•	•	•	•		1 side siliconised

## Unbleached Super Calendered

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
RB90/ <i>nm</i>	88	77	6.9	3.5	510	540	Natural	•	•	•	•	•	•	1 or 2 side siliconised
RB120/ <i>nm</i>	120	105	9.4	4.7	760	820	Natural	•	•	•	•	•	•	1 or 2 side siliconised
RB160/ <i>nm</i>	160	130	13.0	6.5	1050	1150	Natural	•	•	•	•	•	•	1 or 2 side siliconised

## Coloured Super Calendered

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
RB80/ <i>nm</i>	80	71	6.5	3.0	350	380	Amber	•	•	•	•	•	•	1 or 2 side siliconised
RB90/ <i>nm</i>	88	78	7.0	3.1	390	420	Amber	•	•	•	•	•	•	1 or 2 side siliconised
RB120/ <i>nm</i>	120	100	9.4	4.7	800	850	Blue	•	•	•	•	•	•	1 or 2 side siliconised

## White Super Calendered

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
RB50/ <i>nm</i>	50	44	4.0	2.0	250	260	White	•	•	•	•	•	•	1 or 2 side siliconised
RB65/ <i>nm</i>	62	55	5.8	3.0	300	325	White	•	•	•	•	•	•	1 or 2 side siliconised
RB80/ <i>nm</i>	75	70	5.2	2.3	350	370	White	•	•	•	•	•	•	1 or 2 side siliconised
RB90/ <i>nm</i>	88	81	5.6	2.8	400	475	White	•	•	•	•	•	•	1 or 2 side siliconised
RB120/ <i>nm</i>	120	100	9.4	4.7	800	850	White	•	•	•	•	•	•	1 or 2 side siliconised
RB140/ <i>nm</i>	140	115	10.9	5.5	1000	1100	White	•	•	•	•	•	•	1 or 2 side siliconised

Release Level	1	2	3	4	6	8
Release Force (g/25mm)	12	20	30	45	60	150

*Alternative gauges and colours to order*



## One Side Polyethylene (LDPE)

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
PE70/ <i>n</i>	60+10	85	4.6	2.3	500	600	White	•	•	•	•	•		1 side siliconised

## Two Side Polyethylene (LDPE)

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
2PE140/ <i>nm</i>	20+100+20	155	9.0	5.0	1150	1400	White	•	•	•	•	•		1 or 2 side siliconised

Release Level	1	2	3	4	6
Release Force (g/25mm)	15	25	40	50	60

## Two Side Polyethylene (MDPE)

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels						Description
			MD	CD	MD	CD		1	2	3	4	6	8	
2PE90/ <i>nmV</i>	13+60+13	90	6.0	3.5	550	600	White	•	•	•	•	•		1 or 2 side siliconised
2PE120/ <i>nmV</i>	20+80+20	120	7.5	5.0	725	675	White	•	•	•	•	•		1 or 2 side siliconised
2PE160/ <i>nmV</i>	20+120+20	170	11.0	6.0	1000	975	White	•	•	•	•	•		1 or 2 side siliconised

Release Level	1	2	3	4	6
Release Force (g/25mm)	14	20	30	40	60

## Pure Vegetable Parchment

Grade	Base Weight (g/m <sup>2</sup> )	Thickness (μ)	Tensile Strength (kN/m)		Tear Strength (mN)		Colours	Release Levels					Description
			MD	CD	MD	CD		STD	KF	F3	F5	F9	
BW18	42	55	4.7	2.7	200	190	White	•	•	•			2 side siliconised
BW20	55	65	7.0	2.6	300	250	White	•					2 side siliconised
BW30	70	78	7.5	4.7	390	360	White	•	•		•	•	2 side siliconised

Release Level	STD	KF	F3	F5	F9
Release Force (g/25mm)	20	12	550	150	500

*Alternative gauges and colours to order*

## Polyester

Grade	Thickness ( $\mu$ )	Weight (g/m <sup>2</sup> )	Density (g/m <sup>3</sup> )	Colours	Release Levels						Description
					1	2	3	4	6	8	
MPT/12	12	17	1.4	M	•	•	•	•	•	•	1 side siliconised
SPT/12	12	17	1.4	H	•	•	•	•	•	•	1 or 2 side siliconised
SPT/23	23	32	1.4	H	•	•	•	•	•	•	1 or 2 side siliconised
PT or SPT/36	36	50	1.4	H	•	•	•	•	•	•	1 or 2 side siliconised
PT or SPT/50	50	70	1.4	H	•	•	•	•	•	•	1 or 2 side siliconised
PT or SPT/75	75	105	1.4	H	•	•	•	•	•	•	1 or 2 side siliconised
PT/125	125	175	1.4	H	•	•	•	•	•	•	1 or 2 side siliconised

## High Density Polyethylene

Grade	Thickness ( $\mu$ )	Weight (g/m <sup>2</sup> )	Density (g/m <sup>3</sup> )	Colours	Release Levels						Description
					1	2	3	4	6	8	
HD/40	40	38	0.95	N R B	•	•	•	•	•	•	1 or 2 side siliconised
HD/50	50	48	0.95	N	•	•	•	•	•	•	1 or 2 side siliconised
HD/75	75	71	0.95	W	•	•	•	•	•	•	1 or 2 side siliconised
HD/80	80	76	0.95	B	•	•	•	•	•	•	1 or 2 side siliconised

## Blown Polypropylene

Grade	Thickness ( $\mu$ )	Weight (g/m <sup>2</sup> )	Density (g/m <sup>3</sup> )	Colours	Release Levels						Description
					1	2	3	4	6	8	
BPP/40	40	36	0.90	N	•	•	•	•	•	•	1 or 2 side siliconised
BPP/40	40	37	0.92	W	•	•	•	•	•	•	1 or 2 side siliconised
BPP/40	40	38	0.94	B/W	•	•	•	•	•	•	1 or 2 side siliconised

## Mono Oriented Polypropylene

Grade	Thickness ( $\mu$ )	Weight (g/m <sup>2</sup> )	Density (g/m <sup>3</sup> )	Colours	Release Levels						Description
					1	2	3	4	6	8	
PP/45	45	40	0.9	N W R B	•	•	•	•	•	•	1 or 2 side siliconised
PP/60	60	54	0.9	N W	•	•	•	•	•	•	1 or 2 side siliconised
PP/70	70	63	0.9	N W	•	•	•	•	•	•	1 or 2 side siliconised
PP/100	100	90	0.9	N W	•	•	•	•	•	•	1 or 2 side siliconised

## Biaxially Oriented Polypropylene

Grade	Thickness ( $\mu$ )	Weight (g/m <sup>2</sup> )	Density (g/m <sup>3</sup> )	Colours	Release Levels						Description
					1	2	3	4	6	8	
BOPP/50	50	45.5	0.91	N	•	•	•	•	•	•	1 or 2 side siliconised

Release Level	1	2	3	4	6	8
Release Force (g/25mm)	12	20	30	45	60	150

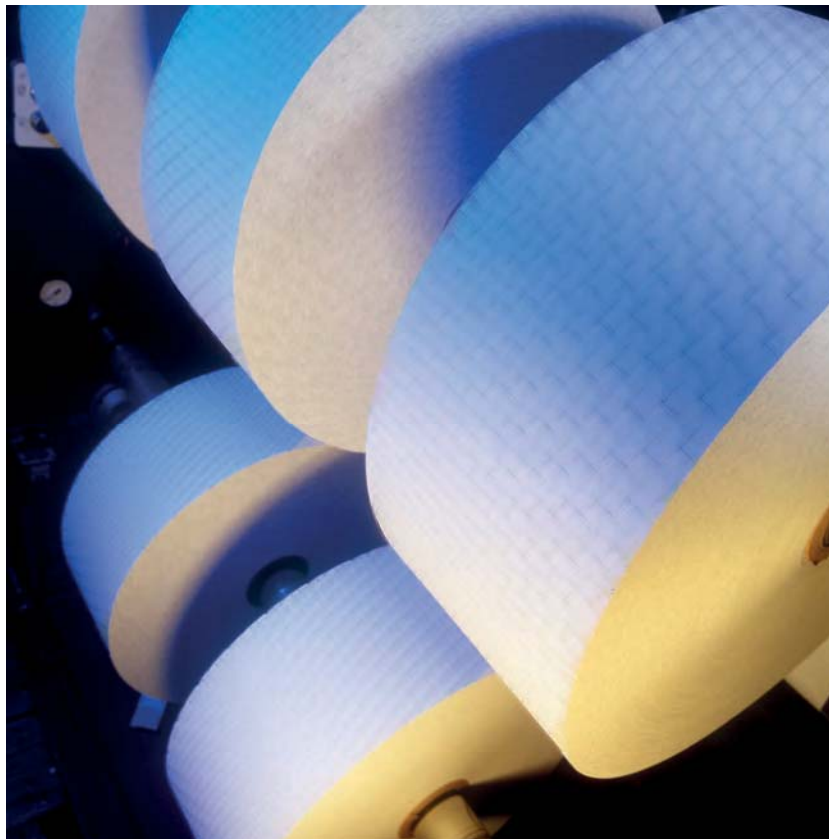
Tighter release levels are available on co-extruded thermal cured polyester if required

**Colours:** M = Metallised H = Hazy N = Natural W = White R = Red B = Blue B/W = Black/White

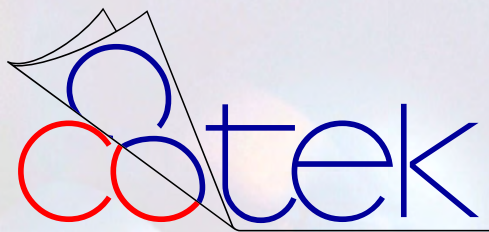
### Alternative gauges and colours to order

Tested according to CTM1, based on FINAT test method FTM10 using T24 Takstrip with a separation rate of 300mm/minute at an angle of 180° on samples aged at 60°C for 16 hours under a pressure of 1 psi.

The values quoted above are typical and the information is given in good faith without warranty. All goods are supplied in accordance with our standard conditions of sale, and no recommendations for specific application or use are offered: users are recommended to satisfy themselves on the suitability of a particular quality for their own application. We reserve the right to use raw materials from more than one source, unless specifically negotiated, whilst maintaining a commercial match within the terms of this specification.







## Cotek Release Films

In response to market demand for **high quality, high performance** polyester liners with **consistent release** characteristics, Cotek have combined the advantage of significantly cheaper unprimed polyester film with the proven release performance of solventless silicone technology.

Release properties are accurately controlled to meet customer requirements, which has not been possible with traditional solvent based silicones historically used on polyester liners.

In fact, the release control performance is comparable to Cotek's highly regarded range of release papers.

A new collection of clear films are now available from 12 micron to 125 micron, one or two side siliconised with easy, modified or differential release:

Thickness (μ)	Thermal Cure	UV Cure	15 - 1300 (mm)	15 - 1600 (mm)	Print Under Silicone	Back Print	Co-extruded (PT)	Straight (SPT)	Metallised (MPT)
12		•	•						•
12		•	•					•	
23		•	•				•	•	•
36	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	
75	•	•	•	•	•	•	•	•	
125	•	•	•	•	•	•	•		

Suitable for high technology applications such as medical dressings and specialist adhesive tapes, Cotek have the ability to back print or print under the silicone in one colour to specific customer requirements.

Finished reels from 1600mm wide can be offered with 100% solids solvent free thermal cure or aqueous thermal cure - from 1300mm wide for inerted UV cure. Pre-slit coils as narrow as 15mm wide are possible.

Specialising in accurate and stable silicone release coatings, the range of filmic liners includes HDPE, metallised PET, APET, blown coloured PP, MOPP and BOPP.

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**[www.cotek.co.uk](http://www.cotek.co.uk)**

# Silicone Release Papers for the Baking Industry

- Premium two-side aqueous silicone coating for optimum ease of use
- Coated in-house and quality assured under ISO 9001:2008 and BRC QAICL/UK/BRC/353 control



FM 32964



- Consistent easy release
- Superior surface finish
- Complies with the relevant FDA and BfR regulations for direct food contact
- Excellent char resistance for multiple bake performance especially on vegetable parchment
- Bio-degradable

As a private family owned manufacturer with nearly 50 years experience of supply to the baking industry, distributors and converters, Cotek has an unrivalled technical knowledge which is backed up by competitive pricing and high quality service.



Our aim is to understand and exceed your requirements. To cater for the widest possible range of end uses, we offer a number of options:

- Both greaseproof and pure vegetable parchment are available, the latter in a range of substances from 42 - 70 g/m<sup>2</sup>
- High silicone coatweights for more demanding applications
- Tinted coatings or print under silicone for identification
- Finished product can be in the form of reels, sheets or cut shapes according to your specific needs



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# INTRODUCING AN ECONOMICAL STABLE RELEASE LINER FOR SPECIALIST APPLICATIONS



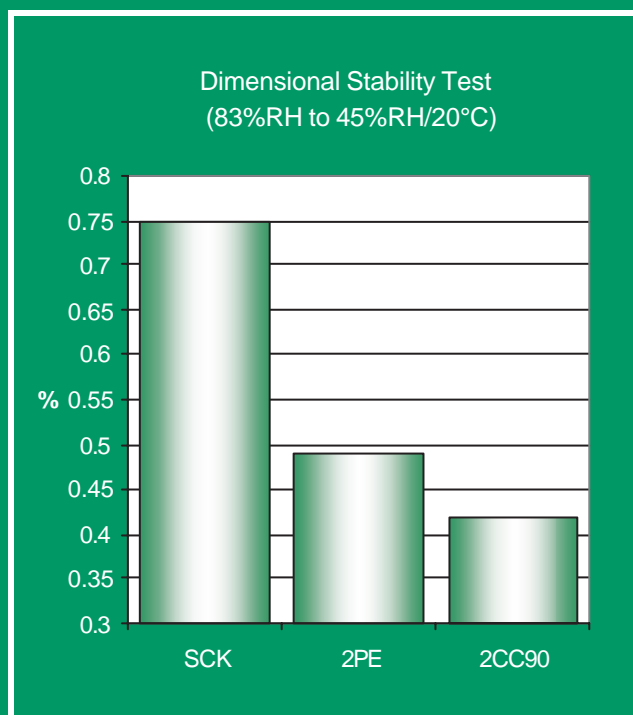
One and two-side siliconised liners have traditionally used Supercalendered or Polyethylene coated papers. Supercalendered papers are most cost effective but have poor dimensional stability. In contrast, two-side polyethylene coated papers have excellent stability at the expense of restricted service temperature and increased cost.

Cotek is now offering a very cost effective liner which also has excellent stability and temperature resistance. Our 90g/m<sup>2</sup> clay coated MG bleached kraft can be supplied 1 or 2 side siliconised with a differential release level if required.

The main benefits of 2CC90 are: -

- Temperature resistance to 200°C.
- Exceptional lay-flat properties.
- Cost effective.
- Excellent dimensional stability.

The superior dimensional stability of 2CC90 compared with supercalendered kraft and 2-side PE coated paper is clearly illustrated in the adjacent graph.



## Typical applications

Medical / surgical

Where good flatness and high temperature resistance are required.

Graphic arts

Excellent dimensional stability for exhibitions and mounted signage.

Specialist adhesive labels

Good ease of handling for die cutting and sheet fed applications.

Specialist double-sided tapes

Where temperature resistance is vital.

For Technical information, samples and trial material contact our customer sales department.



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# INTRODUCING A PRACTICAL RELEASE LINER FOR SILICONE PRESSURE SENSITIVE ADHESIVES

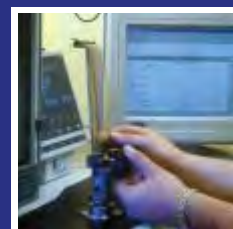


Silicone pressure sensitive adhesives have been available for more than 30 years. Their high cost has tended to limit their use to applications where it is not possible to use a conventional pressure sensitive adhesive. In addition release liners have been restricted to either expensive, solvent based fluoro-carbon coatings or embossed films which tend to allow the adhesive to dry out.

Developed primarily for specialist applications, silicone pressure sensitive adhesives perform over an extreme range of service temperatures (-60°C to +300°C) and are relatively inert and non-toxic. Their unique chemistry allows them to wet-out and bond to silicone release coatings.

The main applications for silicone pressure sensitive adhesives include: -

- Splicing tapes for silicone coated release liners
- Masking tapes for protecting printed circuit boards and enamel coated surfaces from chemical attack
- Mounting PTFE fabric on heated rollers for conditioning plastic films
- An adhesive for external medical use.



Cotek is now pleased to offer a practical release liner based on a new solvent-free fluorinated branched silicone coating. A wide range of substrates is available including polyester film and supercalendered kraft.

Practical experience has shown that most silicone pressure sensitive adhesives can be used satisfactorily with the new release liner. However with the many permutations of silicone P.S.A chemistry and curing systems it is essential that the user ensures that their preferred adhesive is compatible with the release liner. Wet transfer coating and the use of high levels of peroxide curing agents can result in tight release.

The new release liner also provides exceptionally easy release against conventional pressure sensitive adhesives.

This enables release coated splicing tape to be manufactured without a separate liner.

Please contact our Sales Department for more details, prices, samples or to arrange trial material.



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