

**TECHNO**MELT<sup>®</sup>  
**AQ**UENCE<sup>®</sup>



# Adhesive Solutions

For the Graphic Arts Industry



Excellence is our Passion

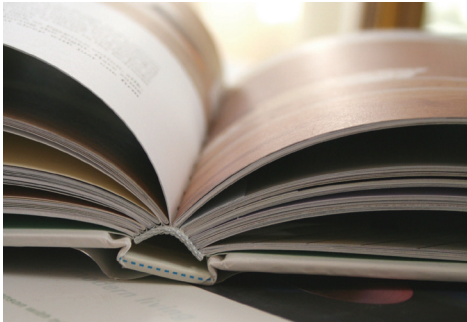
# Adhesive Solutions For the Graphic Arts Industry

Wherever high-performing cost-efficient binding is essential around the world, companies from the bookbinding and graphic arts industry can rely on high-performance adhesives from Henkel.

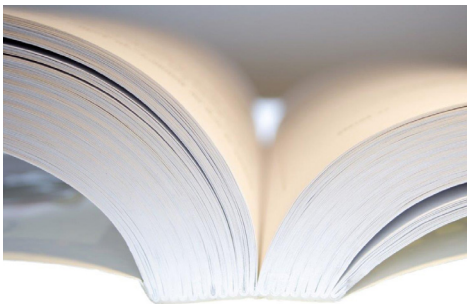
The innovative TECHNOMELT PUR ME/COOL product range, for example, delivers first-class quality with lower application temperature and higher working safety for operators.

Henkel provides tailor-made solutions for its customers, offering all available technologies such as polyurethane, polyolefin and EVA based hotmelts as well as proteinbased and waterbased adhesives. Henkel's range covers also special requirements like high heat and ink solvent resistance, applications on difficult substrates and adhesives especially developed for digital printing.

## Hard cover books



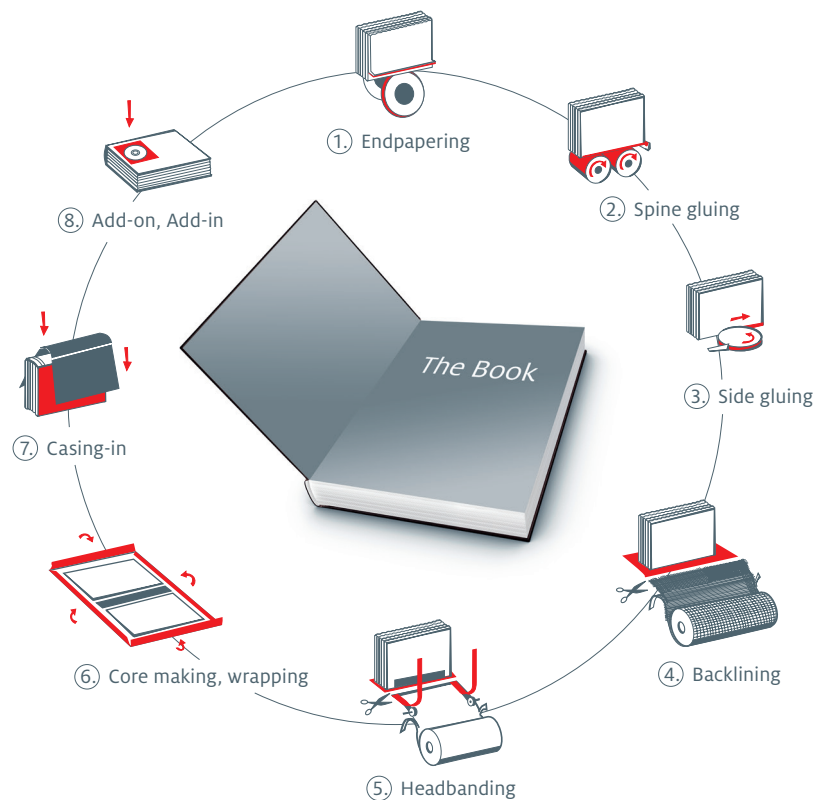
## Soft cover books



## Magazines & catalogs



## File making



## Technologies:

- » TECHNOMELT PUR ME (COOL)
- » TECHNOMELT PUR (COOL)
- » TECHNOMELT Ultra
- » TECHNOMELT (COOL)
- » TECHNOMELT PS
- » Proteinbased: AQUENCE GEL
- » Waterbased: AQUENCE

# TECHNOMELT Innovation Highlights

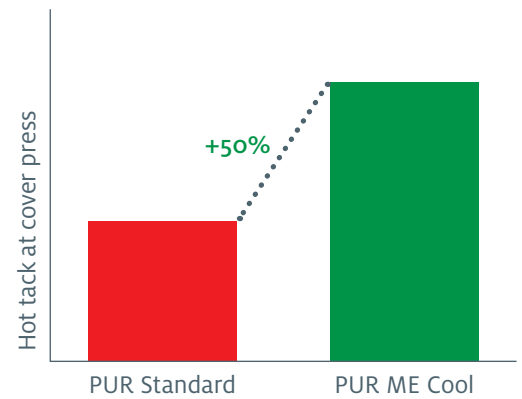
## TECHNOMELT PUR ME/COOL Range



### Performance – Better Book Quality & Appearance

- » Much higher on-machine hot tack which holds the shape of the book spine (all COOL)
- » Much better viscosity stability over time for consistent application (all COOL)
- » Faster processing times due to 100°C application temperature (all COOL)
- » Faster setting for faster trimming and faster curing times for delivery to customers (all COOL)

### Performance



### Materials and Waste

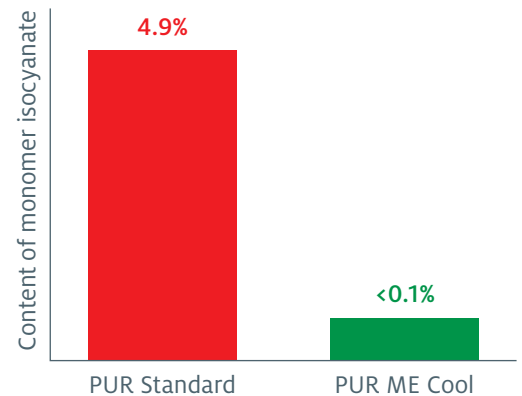
- » Reduced book reject rate (all)



### Improved Health and Safety

- » Low application temperature of 100°C (all COOL)
- » <0.1% of free MDI (all ME)

### Minimal emission



### Water and Wastewater

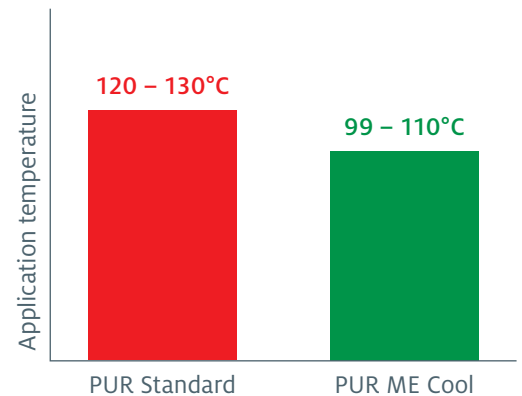
- » Longer cleaning intervals, especially trimming knives (all COOL)



### Energy and Climate

- » Less energy consumption (all COOL)
- » Less isocyanate content (all ME)

### Minimal energy consumption



# TECHNOMELT Innovation Highlights

## TECHNOMELT Ultra Range – New Hotmelt Side Gluing Range



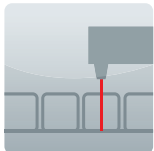
### Increased mileage

- » Lower consumption
- » Excellent bonding to wide variety of substrates



### Less maintenance

- » Extended equipment lifetime
- » Reduced cost for spare parts



### Clean production

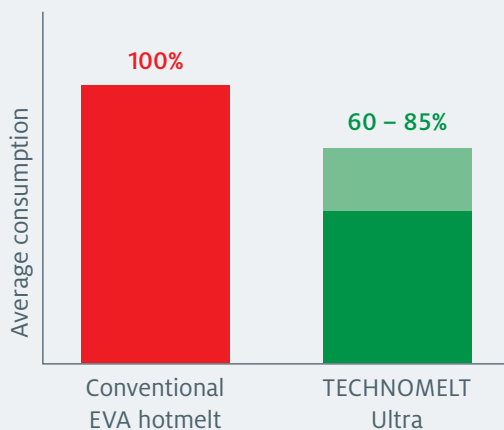
- » Excellent thermal stability
- » No stringing or clogging of nozzles



### Reduced downtime

- » For cleaning and maintenance
- » Virtually no adhesive-related line shutdown

### Minimal emission



### Sustainability aspects



- » Less energy used
- » Less greenhouse gases generated



- » Less resources used
- » Less waste generated



# TECHNOMELT Hotmelt Adhesives

## Core Range for the Graphic Arts Industry

### Reactive hotmelts for spine and side gluing

	Viscosity	Open time	Color	Application information	Application temperature	Trimming time in sec.	Side/spine glue
<b>TECHNOMELT PUR ME/COOL</b>							
TECHNOMELT PUR 3400 ME COOL	4,500 – 8,000 at 100°C mPas	short	white	wheel/nozzle	105°C – 110°C	45 – 60	Spine
TECHNOMELT PUR 3325 COOL	4,500 – 7,500 at 100°C mPas	short	transparent	wheel/nozzle	105°C – 110°C	60 – 90	Spine
TECHNOMELT PUR 3300 ME	4,000 – 8,000 at 130°C mPas	medium	white	wheel/nozzle	115°C – 130°C	60 – 90	Spine
TECHNOMELT PUR 4700 ME GA	6,000 – 12,000 at 130°C mPas	long	transparent	nozzle	130°C – 150°C	60 – 90	Side
<b>TECHNOMELT PUR Standard</b>							
TECHNOMELT PUR 3317 BR	2,500 – 4,500 at 130°C mPas	medium	transparent	wheel/nozzle	115°C – 130°C	60 – 90	Spine

### Hotmelts for spine gluing

	Viscosity at 160° C mPas	Open time	Color	Application information	Application temperature	Setting time	Main application
TECHNOMELT GA 3635	4,750 – 6,450	medium	white	wheel	160°C – 180°C	medium	High-quality paperbacks
TECHNOMELT GA 3630	4,000 – 5,400	medium	white	wheel	160°C – 180°C	short	Digital Printing
TECHNOMELT GA 3116	4,200 – 5,800	medium	white	wheel	160°C – 180°C	short	Digital Printing
TECHNOMELT GA 3660	4,800 – 6,600	long	white	wheel	160°C – 180°C	medium	Roundable, good lay-flat & flexibility
TECHNOMELT GA 3666	~ 6,250	medium	white	wheel	160°C – 180°C	medium	High heat resistance, roundable
TECHNOMELT GA 3680	8,600 – 10,750	long	white	wheel	160°C – 180°C	medium	Best inksolvent resistance, best roundability

### Hotmelts for side gluing

	Viscosity at 160° C mPas	Open time	Color	Application information	Application temperature
<b>Polyolefin Hotmelt</b>					
TECHNOMELT ULTRA 3945	2,000 – 2,500	medium	light yellow	disk, nozzle	160°C – 180°C
TECHNOMELT ULTRA 3960	2,100 – 3,100	long	transparent yellow	disk, nozzle	160°C – 180°C
<b>EVA Hotmelt</b>					
TECHNOMELT GA 3840	1,250 – 1,750	medium	transparent yellow	disk, nozzle	160°C – 180°C
TECHNOMELT GA 3860	1,700 – 1,800	long	white	disk, nozzle	160°C – 180°C
<b>PS Hotmelt</b>					
TECHNOMELT PS 3880	1,800 – 2,400	permanent	transparent yellow	disk, nozzle	150°C – 175°C

# AQUENCE Waterbased Adhesives

## Core Range for the Graphic Arts Industry

### Waterbased Range

	Viscosity	Application information	Primer/topcoat
<b>Spine gluing</b>			
AQUENCE GA 3232 HL	~ 22,000 mpsc.	Perfect binding and gluing off. IR, HF and manuel drying.	topcoat
AQUENCE GA 3231 VL	~ 12,000 mpsc.	Perfect binding and gluing off. IR, HF and manuel drying.	primer
AQUENCE GA 7028	~ 11,000 mpsc.	Only gluing off. Suitable for difficult substrates. Low penetration between the signatures. Thread sewn books.	primer
<b>Casing-in</b>			
AQUENCE GA 7214	~ 3,000	Fast setting. Good machinability.	
AQUENCE ENV 7248	~ 2,300	Universal grade. Optimized machinability.	
<b>Endpapering</b>			
AQUENCE FB 7235	~ 300	HHS nozzle. High Tack. Suited for difficult substrates.	
AQUENCE GA 700	~ 2,300	Nozzle, wheel or roller application. Can be used as well for endsheet tipping, as primer for spine gluing.	
<b>Headbanding</b>			
AQUENCE GA 0063	~ 9,500	High tack. Excellent roundability. IF and HF drying systems. Sewn and perfect binding.	
<b>Filemaking/mirroring</b>			
AQUENCE GA 7314	~ 6,000	Standard product for mirroring of files.	

### Proteinbased Range (Jelly Glues)

	Viscosity at 60°C mPas	Open time	RF value %	Application information
<b>Casemaking</b>				
AQUENCE GA 6640 GEL	~ 2,200	short	57	Casemaking high speed (e.g. Hörauf, Kolbius, Müller Martini), normal climate.
AQUENCE GA 6641 GEL	~ 1,800	short	48	Casemaking high speed, especially suited for Kolbus Strato or DA 85.
AQUENCE GA 6642 GEL	~ 2,650	short	53	Casemaking high speed (e.g. Hörauf, Kolbus, Müller Martini), normal climate.
<b>Backlining</b>				
AQUENCE GA 1880 GEL	~ 8,000	short	68	Very flexible backlining. Excellent stability of rounding.

# TECHNOMELT Adhesives

## Cleaner and Service Products



### TECHNOMELT PUR Cleaner All-in-One

- » For all PUR & non-reactive hotmelts
- » Especially for bulk melters, also suitable for tank melters
- » For hoses, filters, nozzles, steel rollers
- » Appearance: solid
- » Color: light red
- » Working temperature: 100°C (plate), max. 150°C (hose)

#### Available in the following packagings

- 11.2 kg carton (8 x 1.4 kg)
- 20 kg steel drum with 15 kg
- 180 kg steel drum filled with 50 kg



### TECHNOMELT Cleaner Melt-O-Clean

- » For all types of hotmelts
- » For machine surfaces, especially to remove residual adhesive, heavy grease and grime
- » For filters, spray heads, nozzles, steel rollers
- » Appearance: liquid
- » Color: transparent
- » Working temperature: Room temperature

#### Available in the following packagings

- 12 x 0.5 l spray bottles
- 4 x 4.5 l steel canister



### TECHNOMELT PUR-O-Lub

- » Multipurpose lubricant
- » For lubrication of the melting plate of bulk melters, doctorblades or other movable parts of the melting unit as well as sealing of nozzles
- » Especially designed for getting in contact with polyurethane adhesive which is not affected by this grease
- » Appearance: pasty
- » Color: yellow/beige
- » Working temperature: minus 45°C to 180°C

#### Available in the following packaging

- 15 x 310 ml cartridges

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