



EOC Group
HQ Belgium - Oudenaarde

Flame retardant hotmelt finish
for mattress ticking
novel productrange at EOC

- The 'EOC Group'
- Product ranges
- What are thermoplastic hotmelts and what's their main function
- Important requirements of mattress ticking coating
- Multiple step process versus one step process
- Test-results
- Key benefits - summary



Who is EOC Group

*An international partner...
with the flexibility of a family business”*

EOC Group is a medium-sized family company with a worldwide experience.

Initially founded in 1948 in The Netherlands.

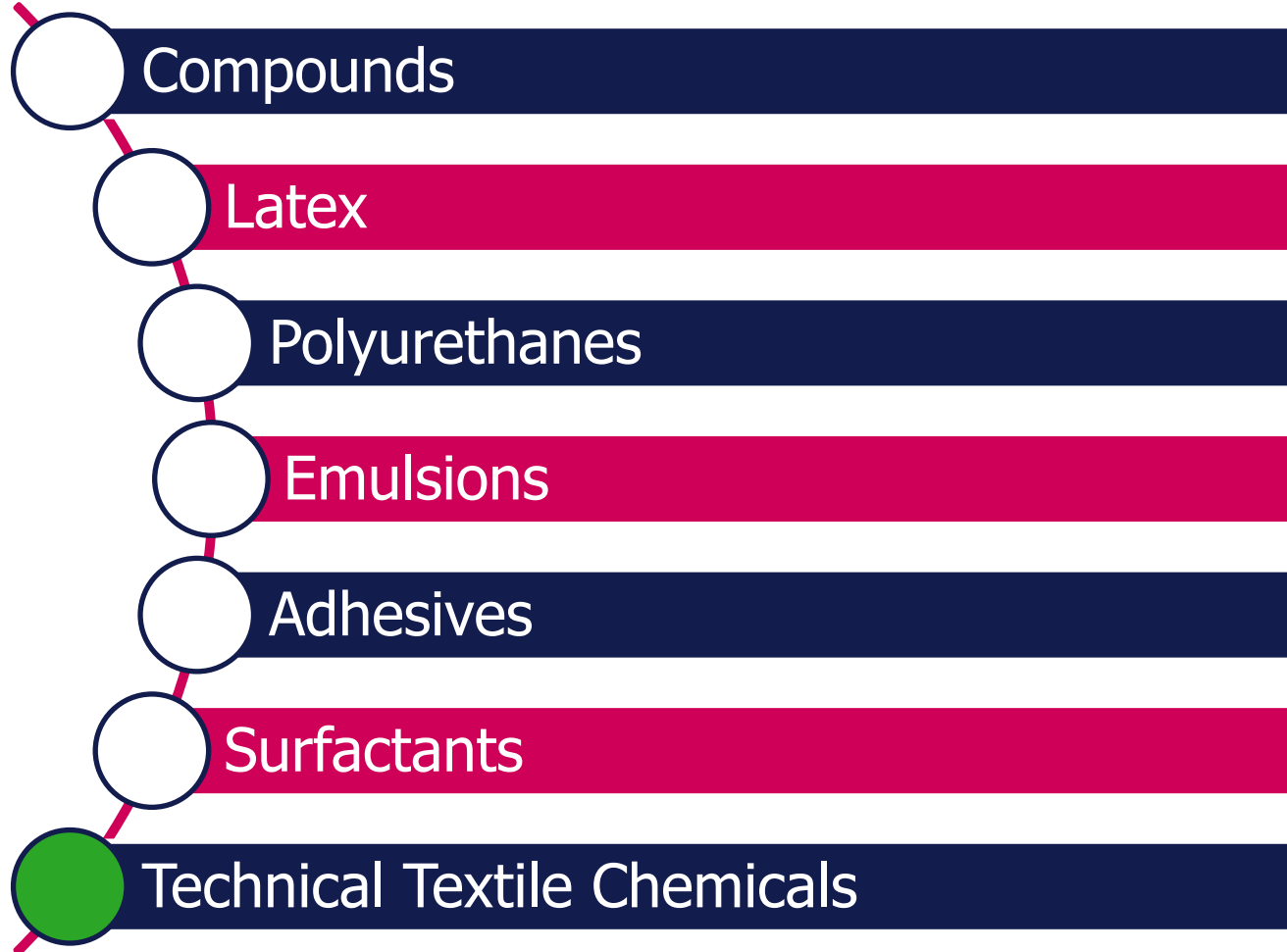
Headquarters in Oudenaarde / Belgium.

Turnover	300 million €
Production	380.000 MT Plus
Divisions	7
Production sites	13
Number of employees	Worldwide: 700 Belgian sites: 350





Business units





EOC Worldwide

Product/Plant	Compounds	Latices	Emulsions	Adhesives	Hotmelts	Surfactants	PUD's
Belgium	✓	✓	✓	✓		✓	✓
Italy	✓			✓		✓	
Poland			✓	✓			
Portugal			✓	✓		✓	
Switzerland	✓			✓			
The Netherlands	✓			✓	✓		
Turkey	✓						
United Kingdom	✓			✓			
China	✓			✓		✓	
India	✓	✓	✓				
Thailand	✓		✓	✓			

- The 'EOC Group'
- Product ranges
- What are thermoplastic hotmelts and what's their main function
- Important requirements of mattress ticking coating
- Multiple step process versus one step process
- Test-results
- Key benefits - summary



What are thermoplastic hotmelts ?

- Polymers such as PP, PE, PA, EVA, PET...
 - Low viscosity melts
 - Melting between 50°C and 150°C
 - Rapidly set and easily hardening upon cooling
 - Easy processability
 - Solvent-free
- ## Main functions
- To bond various layers together(lamination-adhesion)
 - Providing good seam slippage properties



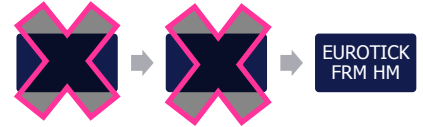
Requirements for mattress ticking

- Flame retardancy : EN597-1 & EN597-2
- Seam slippage : ISO 13936-2
- Soft handle
- Non yellowing
- Non corrosive
- Flexible
- Textile feel
-





Overview

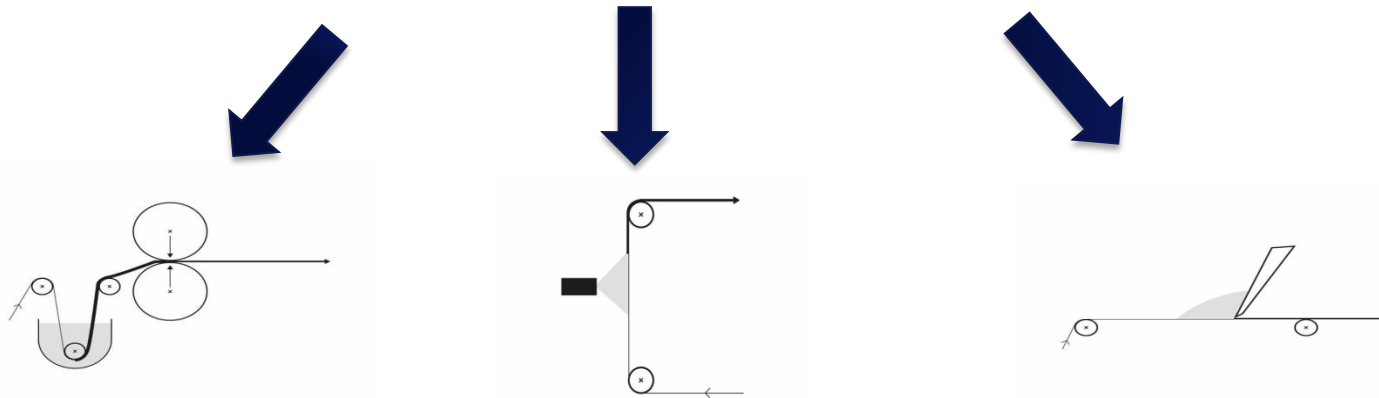


- The 'EOC Group'
- Product ranges
- Our Quality Commitments & sustainability
- What are thermoplastic hotmelts and what's their main function
- Important requirements of mattress ticking coating
- **Multiple step process versus one step process**
- Test-results
- Key benefits - summary



Old school

→ classical flame retardant grades are water-based solutions based on inorganic or organic salts applied by padding or spraying or as foam



Forced convection drying is needed.

FOULARD OR
FR FOAM

OVEN

UNFUNCTIONALIZED
HOTMELT
OR LATEX



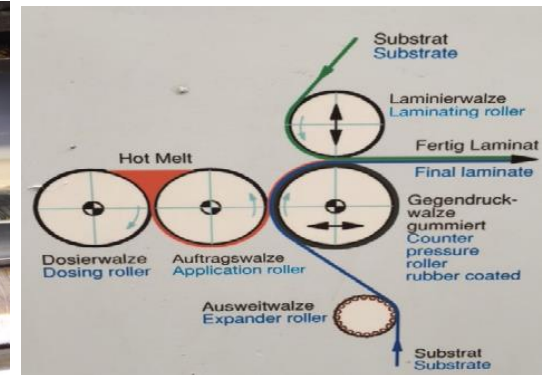
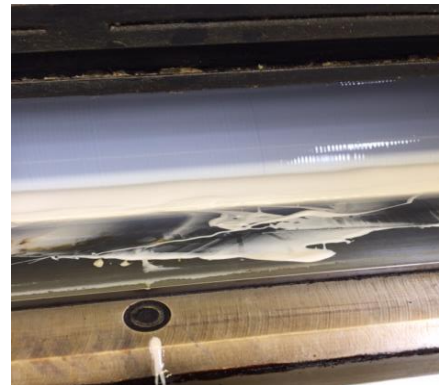
EOC novel system



EOC EUROTICK HM grades

polymer based with flame retardant additives

applied by slot-die or rolls – eventually followed by lamination



~~FOULARD
OR FR FOAM~~



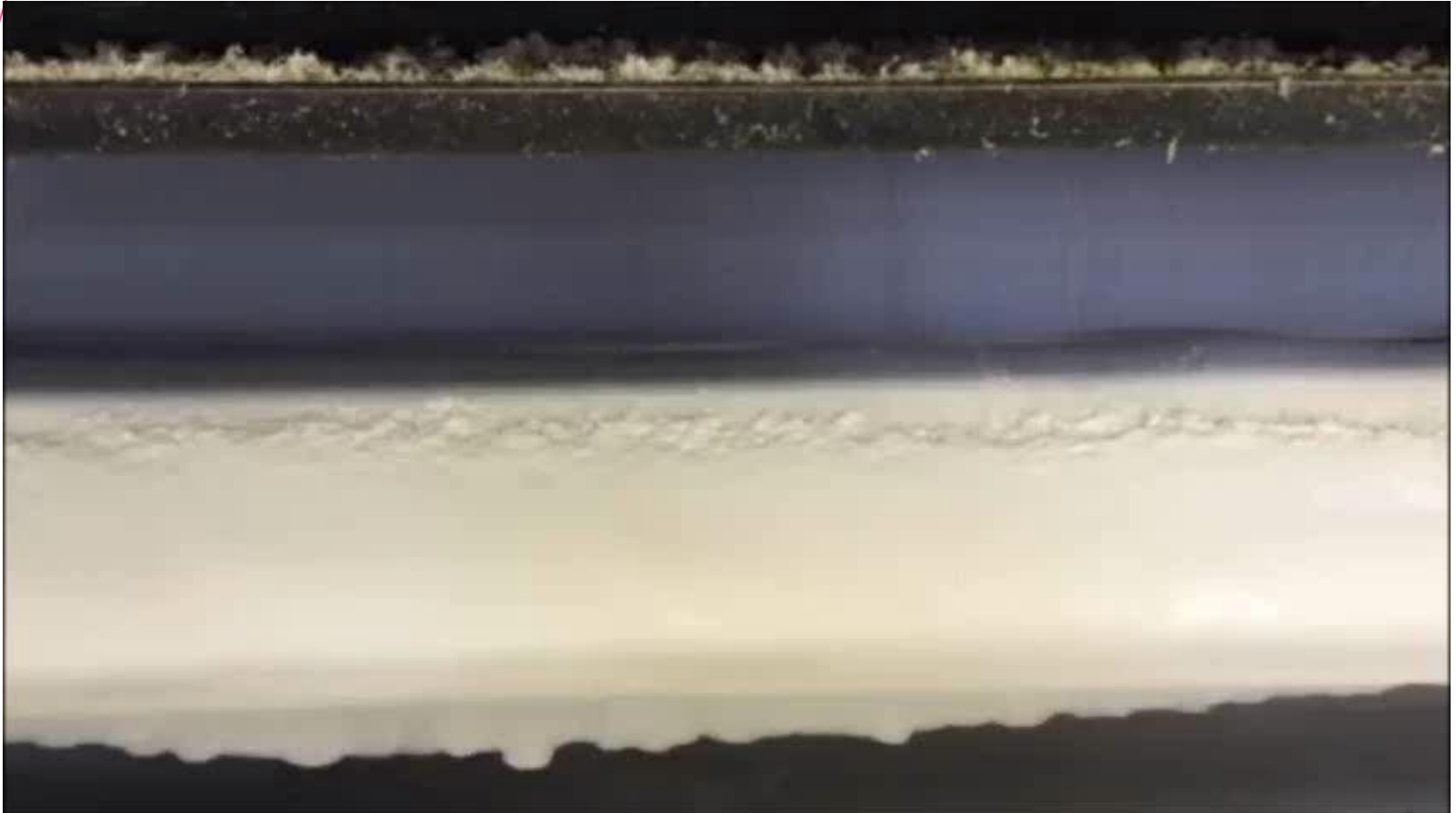
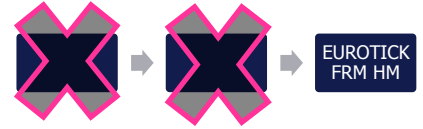
~~OVEN~~



EUROTICK
FRM HM



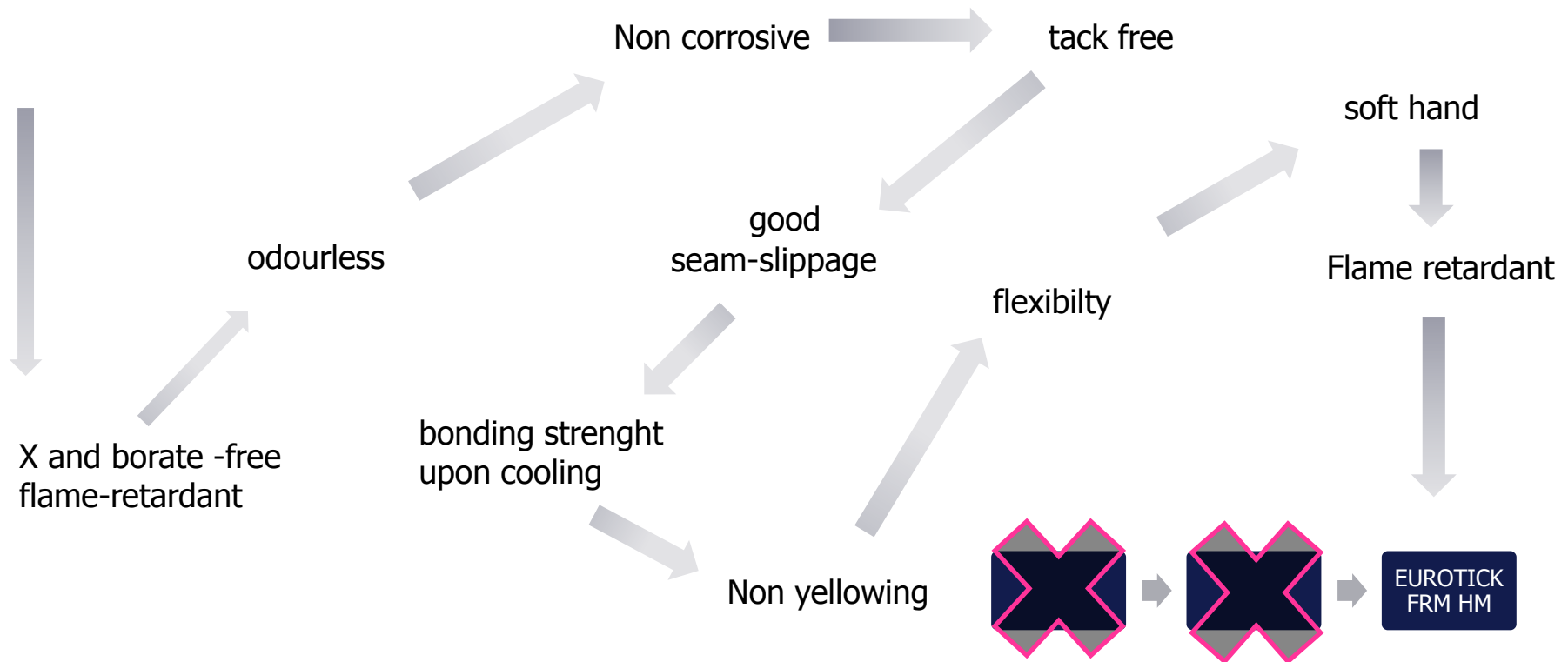
EUROTICK application





EOC novel system : Key Benefits

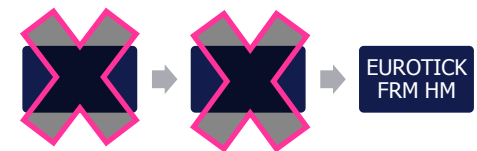
All functionalities for Mattress ticking finish in ONE process step





EUROTICK HOT MELT GRADES

	CELLULOSICS	BLENDS	SYNTHETICS	ADD-ON
FRM 14 HM			√	10-25
FRM 32 HM	√			15-40
FRM 40 HM		√		20-40





EN 597-1 and EN 597-2

FRM14 HM

for synthetics, applied on 55%PES, 45%PP fabric

ADD-ON	597-1	597-2 flat	597-2 edge	597-2 tuft
17,5	PASS	0-0-0	0-0	0-0
19	PASS	0-0-4	0-0	0-0
30,2	PASS	0-0-4	0-0	0-0

FRM32 HM

for cellulosics, applied on 67%VCS, 33%co fabric

ADD-ON	597-1	597-2 flat	597-2 edge	597-2 tuft
28,5	PASS	28-23-36	36- F	40- F
39,2	PASS	30-30-25	22-26	0-20

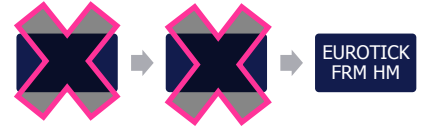
FRM40 HM

for blends, applied on 62%co, 38%PES fabric

ADD-ON	597-1	597-2 flat	597-2 edge	597-2 tuft
18	PASS	63-41-41	61-38	63-14
31,1	PASS	22-22-30	100-55	25-73
39,3	PASS	26-28-55	76-100	73-40

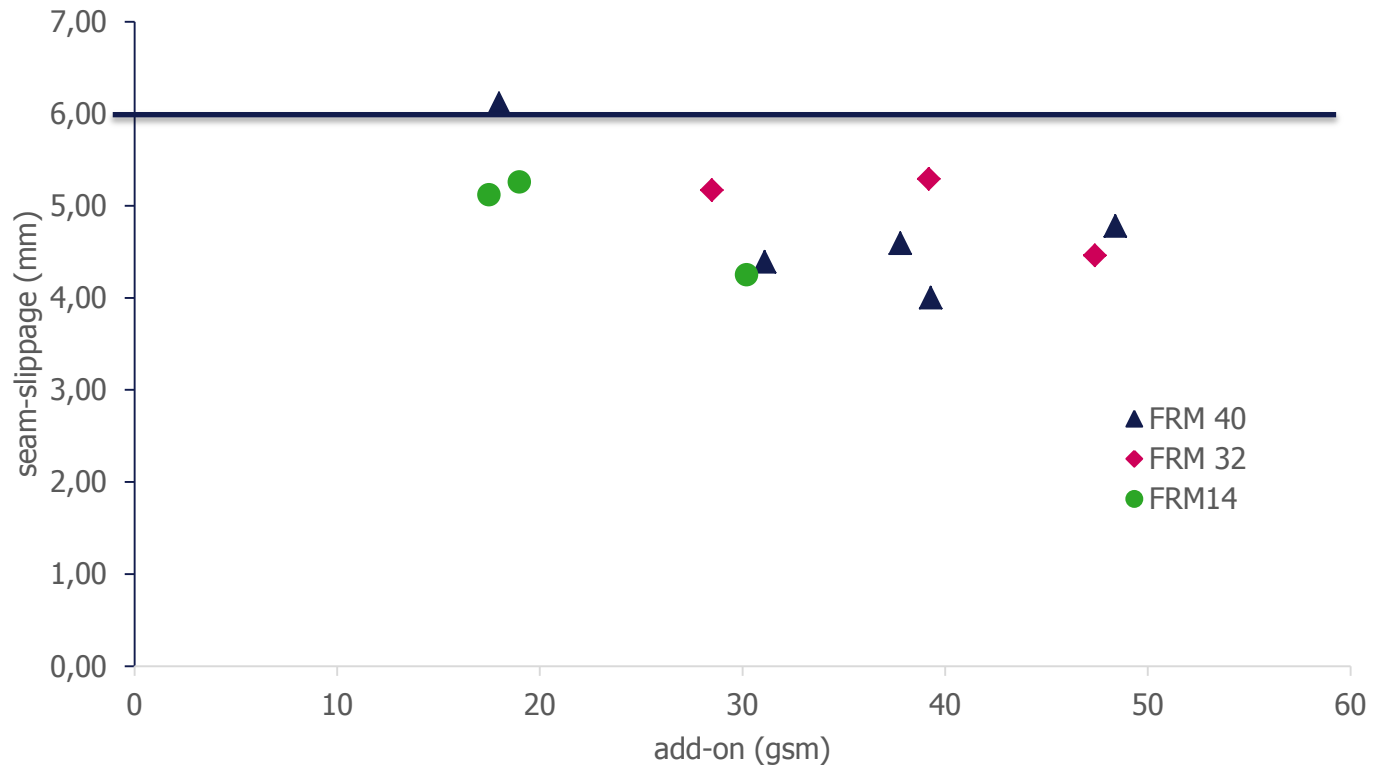


Match test 597-2



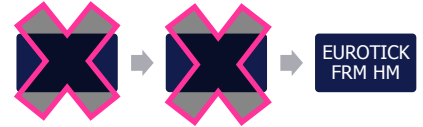


EN13936-2 – Seam slippage





Overview



- The 'EOC Group'
- Product ranges
- Our Quality Commitments & sustainability
- What are thermoplastic hotmelts and what's their main function
- Important requirements of mattress ticking coating
- Multiple step process versus one step process
- Test-results
- **Key benefits - summary**



EUROTICK hotmelt grades

- Corrosion free
- No hygroscopic problems
- Good hands
- Textile feel



- Easy application
 - Lamination
 - Easy processing
- High Processingspeed
 - less process steps
- Dry proces – no water evaporation
 - less emission
- Less energy consumption



Energy

