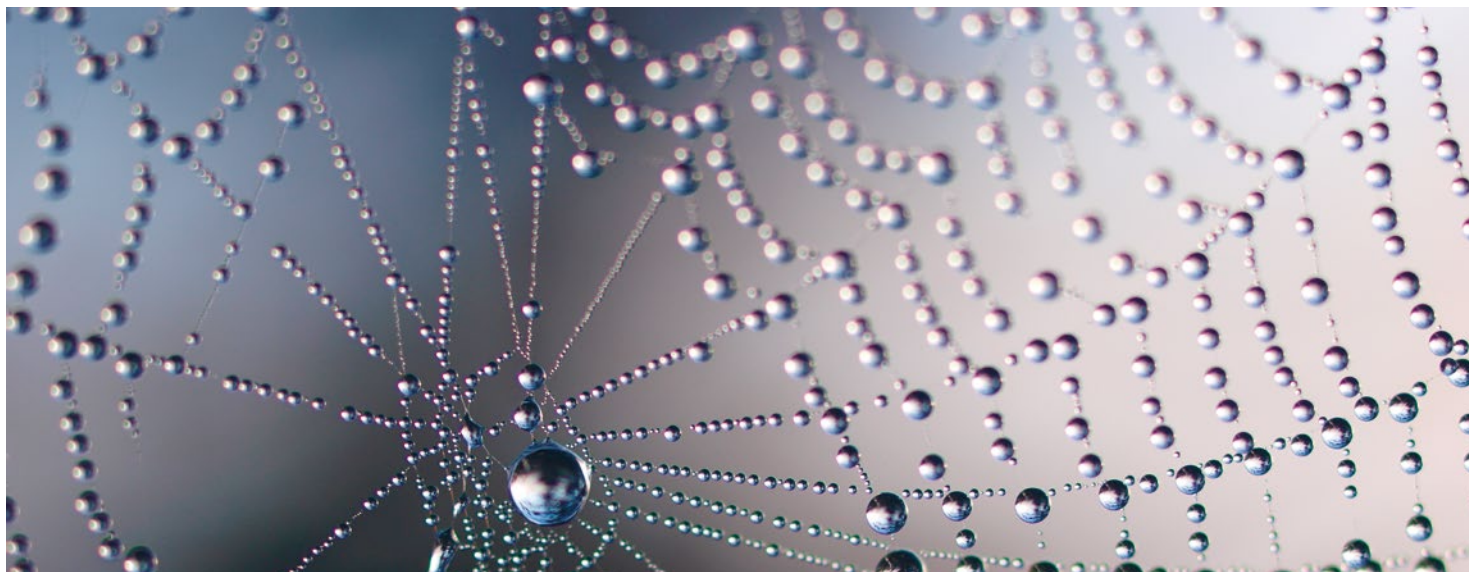




lamberti
chemical specialties

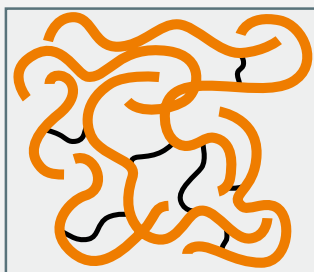


// BLOCKED ISOCYANATES CROSSLINKERS //

Lamberti crosslinking agents improve properties of water-based systems creating a network into the internal polymer structure with a consequent increasing in washing and rubbing fastness.



Without Crosslinkers



With Crosslinkers

Crosslinking result: polymer chains are linked and a network is created.

Lamberti ROLFLEX® BK characteristics and uses

Lamberti crosslinkers are blocked polyisocyanate, stable and easily dispersible in water-based systems. The products can be added during production and can be used in coating and printing applications as well as booster for water-repellent treatments.

The advantages of Lamberti blocked isocyanate are:

- Long shelf life
- One component system
- Cross-linking reaction starts only at high temperature
- APEO free
- FORMALDEHYDE free



	ROLFLEX® BK 9	ROLFLEX® BK 18
Chemical characteristics	Aromatic isocyanate	Aliphatic isocyanate
Quantity (%)	5 - 10	5 - 10
Water oil repellency	Suggested	Not suggested
Curing conditions	130 °C – 3 min.	150 °C – 3 min.
Treatments after curing	No wash – 0% of formaldehyde	No wash – 0% of formaldehyde
Influence on final fabric	No influence	No influence
Final characteristics	Enhanced washing and rubbing fastness	Enhanced washing and rubbing fastness
Market sector	Coating, padding	Coating, padding, printing paste



Polyurethane coatings have been tested against washing and rubbing

LAUNDRY TEST: 5 machine washing cycles at 60 °C

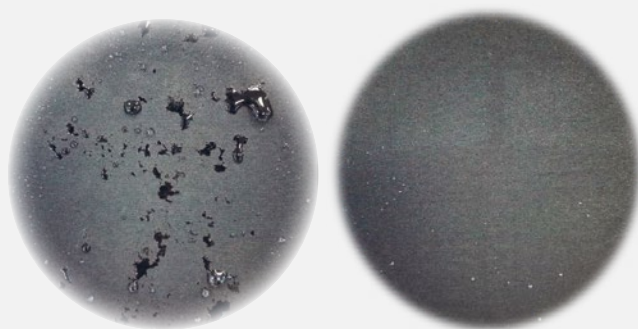


	ROLFLEX® BK 9	ROLFLEX® BK 18	MEL/FORM	No crosslinker
Rubbing fastness	Dry: 5 Wet: 4/5	Dry: 5 Wet: 4/5	Dry: 4/5 Wet: 3/4	Dry: 4+ Wet: 3

ROLFLEX® BK 9 for water-repellent systems

Spray test after 10 washing cycles at 40 °C on 100% cotton fabric

	Unwashed	After 10 washings
Only C6 resin	80	70
Only NFC resin	80	70
C6 resin + ROLFLEX® BK 9	100	100
NFC resin + ROLFLEX® BK 9	100	90



Without ROLFLEX® BK 9

With ROLFLEX® BK 9

Spray test after 10 washings at 40 °C

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