

# Sustainable crosslinking solutions, fastness and water-repellency

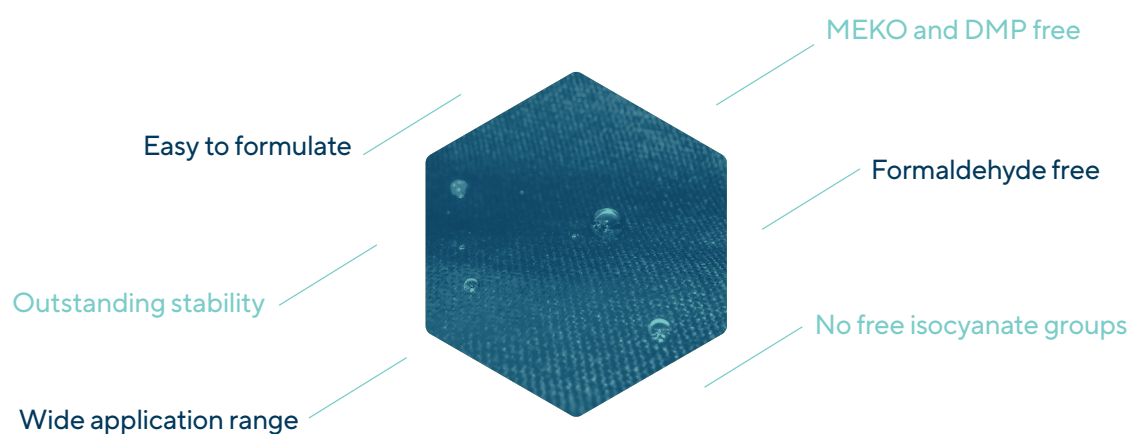
## Rolflex® BK

### Blocked polyurethanes

Rolflex BK is our range of water-based blocked polyurethanes are used as crosslinkers and adhesion promoters for coatings and finishes on flexible and hard substrates. These products, together with our Rolflex® water-based dispersions, helps to improve chemical resistance, coating adhesion, and robustness, without SVHC/RSL chemicals release.

Product	Solid content	Blocking agent/ De-blocking temperature	Chemistry	pH (25 °C)	Ionic charge	Applications
BK 36 ●	30 %	Diisopropylamine (DIPA)/130 °C	Aliphatic	8-10	Non-ionic/Slightly anionic	Printing, coating, water/oil repellency booster
BK 23 ●	30 %	Diisobutylamine (DIBA)/140 °C	Aromatic	7-10	Non-ionic/Slightly anionic	Dimensional stability, coating, water/oil repellency booster
BK 18 ●	40 %	Diisopropylamine (DIPA)/140 °C	Aliphatic	8-10	Non-ionic/Slightly anionic	Printing, coating, pre-treatments
Lamfinish FIX ●	35 %	Diisopropylamine (DIPA)/130 °C	Aliphatic	6-8	Non-ionic	Printing, dyeing

● Bluesign approved



## Rolflex® CX

### Polyisocyanates and polycarbodimides

Heat cure applications require different conditions, depending on the type of substrate. Lamberti Rolflex® CX delivers a range of polyisocyanates and carbodimmes to suit applications sensitive to the high temperatures. Our polyisocyanates offers a superior stability for an easy processability.

Product	Solid content	Chemistry	Curing temperature	Applications
CX 08 ●	70 %	Aliphatic polyisocyanate	Room-temperature	Coating
CX 013	70 %	Aliphatic polyisocyanate	Room-temperature	Coating
CX 021	50 %	Polycarbodimide	80 °C	Coating, Printing

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Lamberti water-repellent finishings are based on fluorine-free and biobased products, the combination with Rolflex BK® and Imbitex assures high and durable water-repellency. The optimum arrangement of these functional elements is highly effective and ensures the optimum attachment and durability on many fiber substrates.

## Lamberti NFC

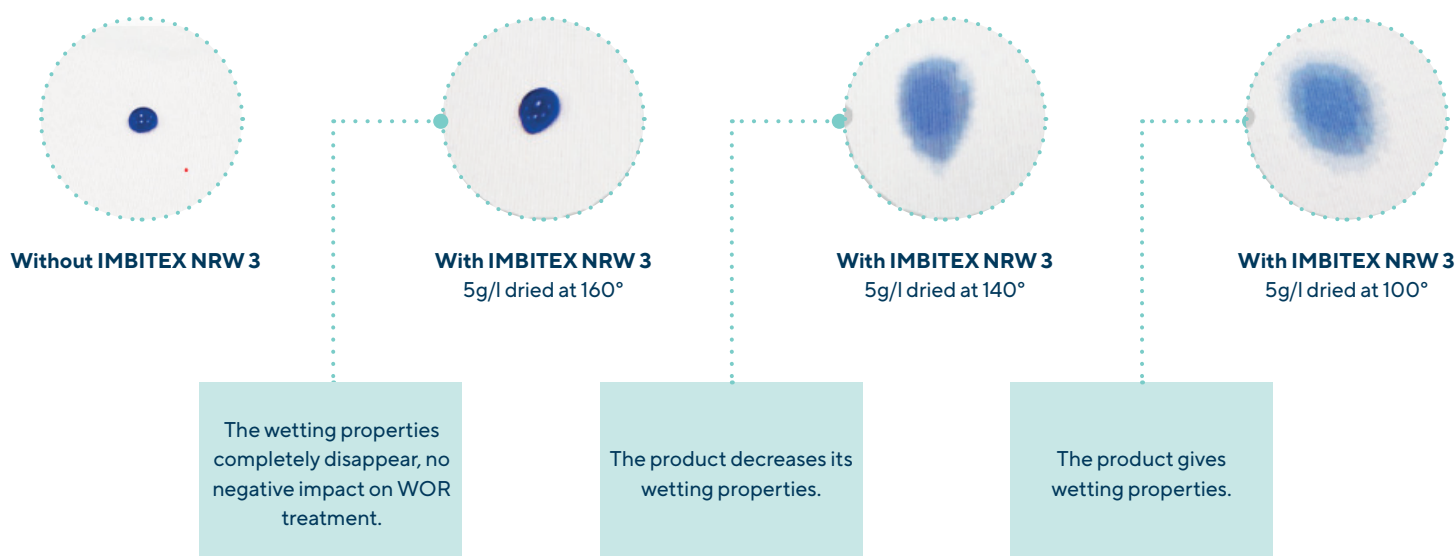
Fluorine-free water-based polymer emulsions. They imparts water repellence to textiles and nonwovens. It resists to washing and dry cleaning if used in combination with booster crosslinker as Rolflex® BK 23 or Rolflex® BK 36.

Product	Solid content	Curing temperature	pH (25 °C)	Ionic charge	Biobased content (%) ASTM D 6866
NFC SF	30 %	160-170 °C	4	Slightly cationic	30
NFC GARD	30 %	160-170 °C	5	Non-ionic/Slightly cationic	70

## Imbitex NRW/3

Surfactant with excellent wetting and emulsifying properties, but with no re-wetting effect on treated fabrics. It is particularly suitable for use with water repellent, oil repellent and anti-crease finishes.

Product	Solubility	Curing temperature	pH (25 °C)	Ionic charge	Biobased content (%) EN 16785:2
NRW/3 ●	Easy soluble	160-170 °C	6-8	Non-ionic/Slightly cationic	70



## Performing and sustainable water-repellency

Suggestion of formulation for fluoro-free durable water-repellency with Lamberti solutions.

Product	Quantity
Acetic acid (80 %)	1 mL/L
NFC SF	30-60 g/L
Rolflex® BK 23	10-18 g/L
Imbitex NRW/3	2 g/L

