



WE  TO ACCELERATE

Performance Improvers  
BRINGING THE BEST FURTHER

**THE BEST  
OUT OF TEXTILES**

We provide you with a wide range of performance improvers that get the best out of your textiles and their extra functionalities.

[TANATEXCHEMICALS.COM](http://TANATEXCHEMICALS.COM)

ADDING PASSION  
TO TEXTILES.

**TANATEX**<sup>®</sup>  
CHEMICALS 

# PERFORMANCE IMPROVERS

## BY TANATEX CHEMICALS

**Two products don't guarantee a perfect combination. If you work with several coatings, finishes and fabric types, you need crosslinkers and boosters that strengthen properties and avoid unwanted chemical reactions. Our experts know which ones you need to get the best out of each individual component.**

Our experts developed a next generation of blocked aliphatic polyisocyanates. Our products are completely free of catalysts, formaldehyde and co-solvents. When compared to unblocked- or other blocked isocyanates, they need lower temperature for de-blocking and having excellent pot-life and storage stability when formulated in coatings and finishes.

### ACRAFIX® PCI

#### Not just another crosslinker!

##### Characteristics

- ✘ PCI stands for Pyrazol blocked Crosslinker Isocyanate based
- ✘ Is an anionic crosslinker for binders of the EDOLAN® range & compounds of the TANA®COAT range
- ✘ Is based on aliphatic isocyanate
- ✘ Contains a high number of NCO groups

##### Benefits

- ✘ Free of catalysts and co-solvents
  - » Most other products contain either co-solvents and/or are oxime-blocked
- ✘ Substantial improvement of properties, due to highly branched 3D network building during drying/curing
  - » Filmforming properties
  - » Adhesion to synthetic fibres
  - » Mechanical- and chemical resistance
  - » Hydrolyses resistance
  - » UV resistance
- ✘ Needs lower temperature for de-blocking
  - » Target 130°C, which is 20°C lower than other blocked systems
- ✘ Excellent potlife and storage stability when formulated in coatings
  - » When compared to unblocked- or other blocked crosslinkers

### ACRAFIX® FF

Acrifix® FF is particularly effective in prints on woven and knitted fabrics made of synthetic fibres, generated cellulose and blends of these with cotton.

##### Characteristics

- ✘ Improves wet rubfastness and wash fastness of pigment prints
- ✘ Print pastes have good storage stability
- ✘ Pourable & pumpable

##### Benefits

- ✘ Meets all the requirements of major retailers, brands and eco-labels
  - » Especially suitable for baby- and childrens clothing or related textiles
  - » Formaldehyde free and free of catalysts, co-solvents or any other unwanted substance
  - » In line with Öko-Tex Standard 100 classification

### Scrub test on a PES tent-fabric

Below shows that the adhesion has strongly improved.



*With a coating based on polyurethane.*



*The same coating including ACRAFIX® PCI.*

### EDOLAN® XCIB

The EDOLAN® XCIB is a very effective crosslinker for coating with binders in the EDOLAN® range.

##### Characteristics

- ✘ Substantially improves coating properties
- ✘ Facilitates adhesion between synthetic fibers
- ✘ Long service life and storage after formulation
- ✘ A min. of 150 °C to initiate the reaction

##### Benefits

- ✘ Effective in coatings of fabrics and knitwear of synthetic fibers, regenerated cellulose and mixtures of these with cotton
- ✘ Improves technical properties of the coating, like solvent-, flex-, UV- and hydrolyses resistance
- ✘ No negative effect on lightfastness of the coating
- ✘ Formaldehyde free



## **BAYGARD® FBI** The best booster there is

### What is a booster?

Boosters are effect improvers, as they enhance the original properties of the fluorocarbon. They do so by increasing their wash durability, initial performance and sometimes higher waterhead. Boosters are highly complex products. The most used class is the blocked isocyanates. These products chemically link the repellent to the substrate. De-blocking needs a certain temperature. BAYGARD® FBI offers a state-of-the-art, aliphatic, DMP blocked isocyanate to improve the properties and permanency of fluorocarbon finishes on all types of substrates. It additionally improves the film forming properties of the fluorocarbon.

### Benefits

- ✘ Fully co-solvent free, formaldehyde free and oxime free  
Reduced VOC emissions
  - » Most other products contain either co-solvents and/or are oxime-blocked
- ✘ Lower curing temperature
  - » Target 140°C, which is 10°C lower than oxime-blocked
- ✘ Reduced yellowing when over-cured or at elevated temperatures
  - » While being aliphatic, compared to aromatic isocyanates
  - » No MEKoxime, which has yellowing tendency
- ✘ Improved compatibility and stability
  - » Due to its nonionic character and stable emulsion

## **ACRAFIX® EP 6047** Into the next world

Our latest development regarding crosslinking is based on a different technology. A highly effective, solvent free waterborne crosslinker based on polycarbodiimide technology especially for aqueous coating systems. Due to its different crosslinking mechanism more covalent bondings can be created, which results in an improved performance. Especially the improvement of, difficult to achieve, solvent resistance and boil wash resistance of polyurethane based coatings.

### Benefits:

- ✘ Fully compliant with all Restricted Substances Lists (RSL)
- ✘ Substantial improvement of hydrolyses resistance and chemical- and abrasion resistance
- ✘ Enhances the adhesion to different type of substrates
- ✘ Very good potlife at elevated pH
- ✘ Very ecofriendly
- ✘ Lower curing temperatures: 100 – 120 deg. C





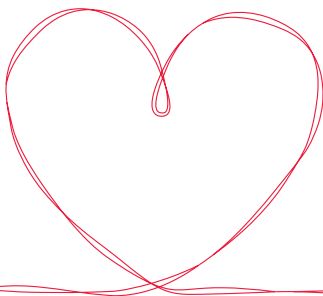
**BETTER  
FASTER  
STRONGER**



In this world of options, quality is not a matter of course. If you want to excel, you have to really know your customers and stay up to date with the newest technologies. This is why we happily contribute to your competitive advantage by developing products that boost the quality of your textiles.

## **Want to know more about our Performance improvers?**

Visit our corporate website [TANATEXCHEMICALS.COM](https://www.tanatexchemicals.com) for more information.



*We believe that with our passion we can change the textile world.  
We improve experiences and make new experiences possible.*

### **About TANATEX**

TANATEX Chemicals breaks new ground with ultramodern textile processing solutions, ranging from pre-treatment to finishing. Through a global network of offices, agencies and distributors, we support our customers worldwide with advanced top quality wet processing products and a high level of technical and tailor-made service. For almost 60 years we have proven to be a trustworthy and innovative associate. Since 2016 we are proud partner of Transfar Chemicals.

Our cutting-edge products are based on the latest trends and demands in today's (technical) textiles and carpet processing industry. We do not sell mere products; we offer fit-for-purpose solutions. With an eco-friendly way of thinking, TANATEX experts are the ones to watch.

+31 (0)318 67 09 11 | [info@tanatexchemicals.com](mailto:info@tanatexchemicals.com) | [TANATEXCHEMICALS.COM](https://www.tanatexchemicals.com)

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