



# Polymers, Coatings & Inks

Top Performance On Any Surface

**polymers**coatings&inks

**cognis.**

# PCI Business Units

**The Polymers, Coatings & Inks Business is organized in 3 segments to serve the specific needs of our customers at it's best**

## **Polymers**

**Emulsion Polymerization**

**Polymer Building Blocks**

## **Coatings**

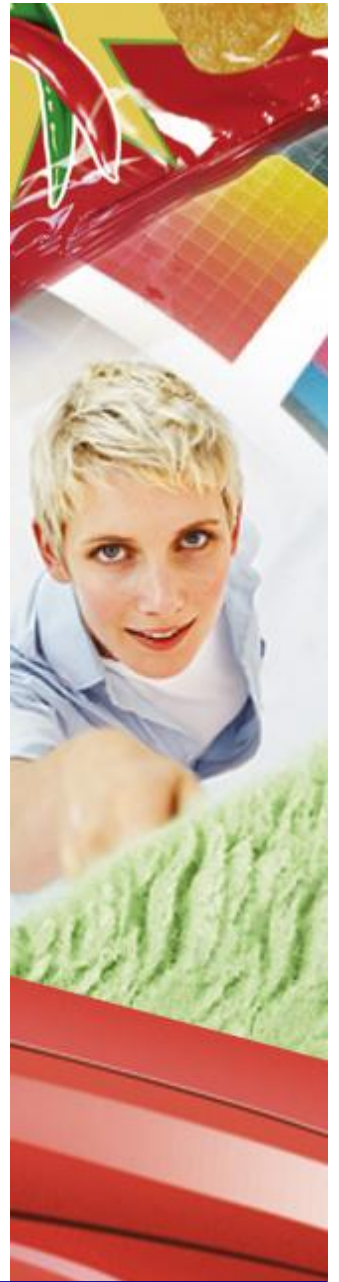
**Industrial Coatings**

**Consumer Coatings**

## **Inks**

**Adhesives**

**Graphic Arts**



# Emulsion Polymerization

## Anionics

Alkyl Phenol Ether Sulphate (APEO-SO<sub>3</sub>Na)

Disponil AES 60 (Germany, Brazil)

Disponil 25 S (Brazil)

Disponil AES 25 (Germany, México)

Disponil AES 72 IS (Germany)



# Emulsion Polymerization

## Anionics

Fatty Alcohol Ether Sulphate (APEO-Free)

Disponil FES types

- FES 27 A (Brazil)
- FES 993 IS (Germany)
- FES 77 IS (Germany)
- FES 63 IS (Germany)





# Emulsion Polymerization

## Anionics Surfactants

Alkyl Aryl Sulphonate

Disponil FES types

- Disponil LDBA (Brazil)
- Disponil LDBS 25 A (Brazil)



# Emulsion Polymerization

## Anionics Surfactants

Fatty Alcohol Ether Sulphate (Green Surfactants)

Disponil SLS 103 BR (Brazil)

Disponil SLS 103 P (Brazil)

Texapon K 12 P (Germany)



# Emulsion Polymerization

## Anionics Surfactants

Fatty Alcohol Ether Sulphate (Green Surfactants)

### Disponil FES types

Disponil FES 27 A (Brazil)

Disponil FES 32 IS (Germany)

Disponil FES 993 IS (Germany)

Disponil FES 77 IS (Germany)

Disponil FES 61 IS (Germany)



# Emulsion Polymerization

## Non-Ionics Surfactants

### Fatty Alcohol Sulphate (APEO-Free)

Mixture of ethoxylated linear fatty alcohols

Modified fattyalcohol polyglycolether

### Disponil A and AFX types

- A and AFX 1080 (Germany)
- A and AFX 3065 (Germany)
- A and AFX 4060 (Germany)





# DISPONIL A and AFX types

Replacements for alkyl phenol ethoxylates

FDA approved for indirect food contact applications

Positive listed on the EU Plastics Directive

Based on natural renewable resources and readily biodegradable

Effective during polymerization and as post reaction stabilizers

Easy to handle at ambient temperatures (liquid)



# Products and Solutions

## Bisomer Methacrylates and Photomer Acrylates

Increased productivity plus environmentally sound and solvent-free processing in coating, printing and electronic applications

## Bisomer Hydroxy Monomers

For highly durable, scratch-resistant exterior automotive coatings



# Products and Solutions

## Bisomer CL Monomers

High purity monomers and hydrogels for more comfortable contact lenses and other biomedical applications

## Texaphor and Perenol Additives

Improved wetting and dispersion in gel coats and filled polyester composites



# Concepts and Solutions

## Multifunctional Additives Concept

### Starfactant

Range of wetting agents improve the appearance & functionality of waterborne systems through improved wetting with defoaming cost effectively

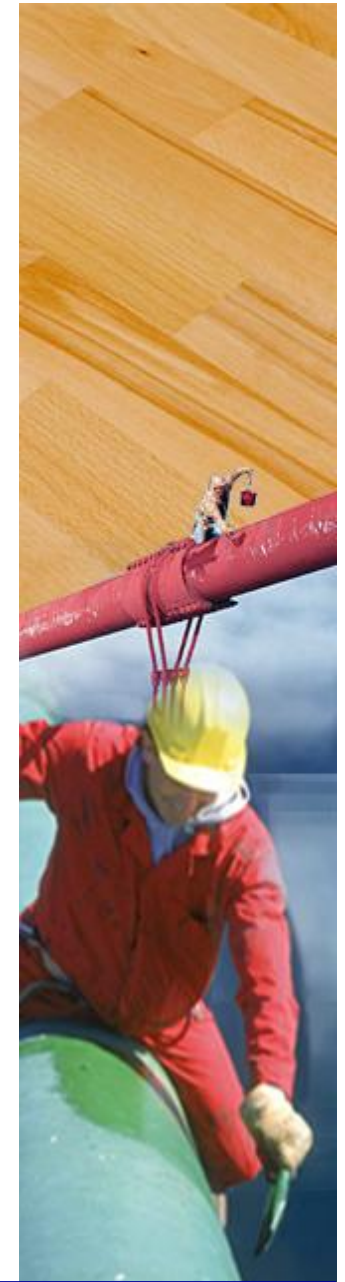
### FoamStar

very efficient and effective line of defoamers for the most difficult to de-foam waterborne systems

**Starfactant™**  
Wetting with defoaming



**FoamStar®**  
Defoaming with wetting





# Industrial Coatings

## Aqueous Dispersants

### Hydropalat

High-performance dispersants for waterborne coatings & pigment dispersions that provide the perfect balance between efficacy and environmental compliance.

Highly effective over broad range of primary and extender pigment types

Reduces need for additional surfactants

Exceptional colour acceptance

Excellent stability to zinc oxide and other reactive pigments imparted

High gloss

Low / No VOC



# Industrial Coatings

## Non-aqueous Dispersants

### Texaphor

High-performance dispersants for solventborne coatings & pigment dispersions that provide the perfect balance between efficacy and environmental compliance.

Highly effective over broad range of primary and extender pigment types

Exceptional colour acceptance

High gloss

Low / No VOC (Texaphor SF types)



# Industrial Coatings

## Air Release, Slip and Levelling additives

Perenol E, Perenol S and Perenol F types

Additives to improve Slip, Flow, Scratch for powder, or liquid form of aqueous and non-aqueous coatings

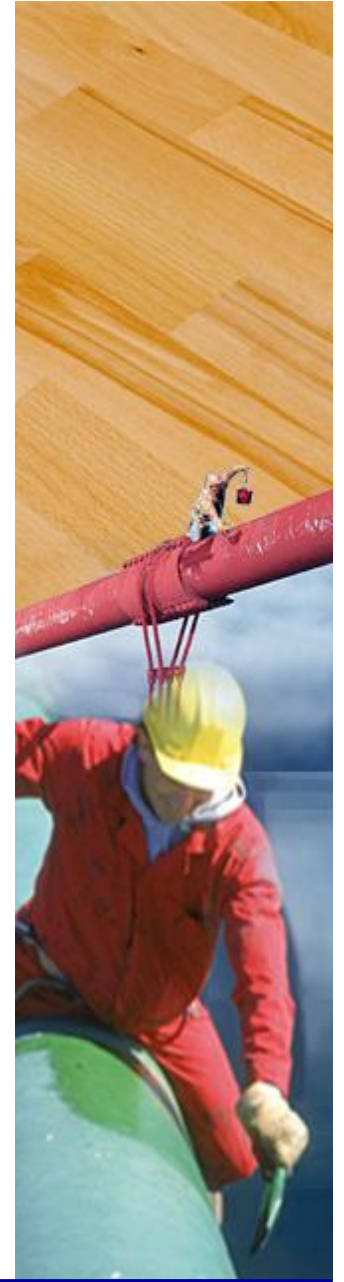


# Industrial Coatings

## Non Aqueous Rheology Modifiers

Rilanit types

Powder, past or liquid Tickeners for use in solventborn coatings



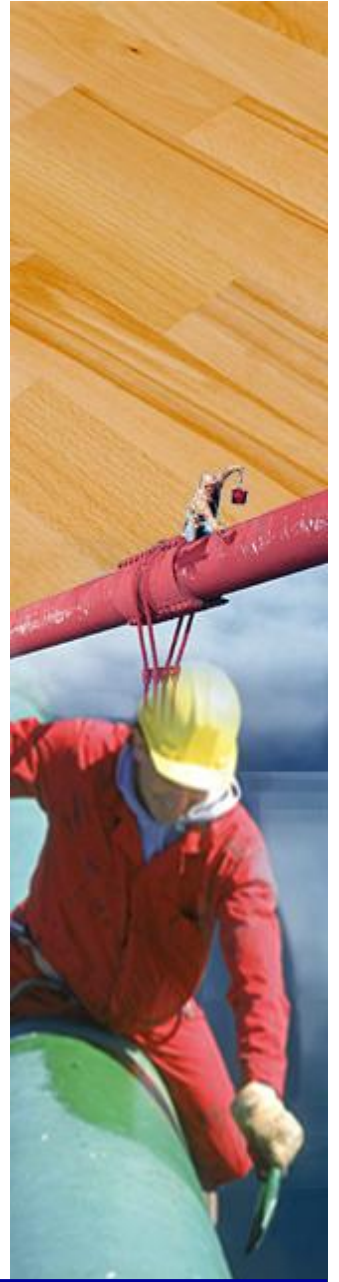


# Industrial Coatings

## Aqueous Rheology Modifiers

### DSX types

**Associative thickeners that confers a Slightly, Moderately or Strongly Pseudoplastic or Newtonian behaviour to the aqueous coatings**



# DSX Rheology Concept

**Solvent free rheology modifiers based on ground-breaking development and innovation. Solvent-free associated thickeners for environmentally compliant waterborne interior and exterior paints and varnishes; ensure excellent rheology control for easier handling.**

## **DSX<sup>®</sup> 3000 Series (solvent-free):**

- Efficient over a broad range of shear rates**
- Optimized flow & leveling and sag-resistance balance**
- Effective across many different resin systems**
- Minimized viscosity loss on tinting**
- Includes APEO and heavy metal free products**
- Easy to incorporate – cycle time savings**

