



# 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



# 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



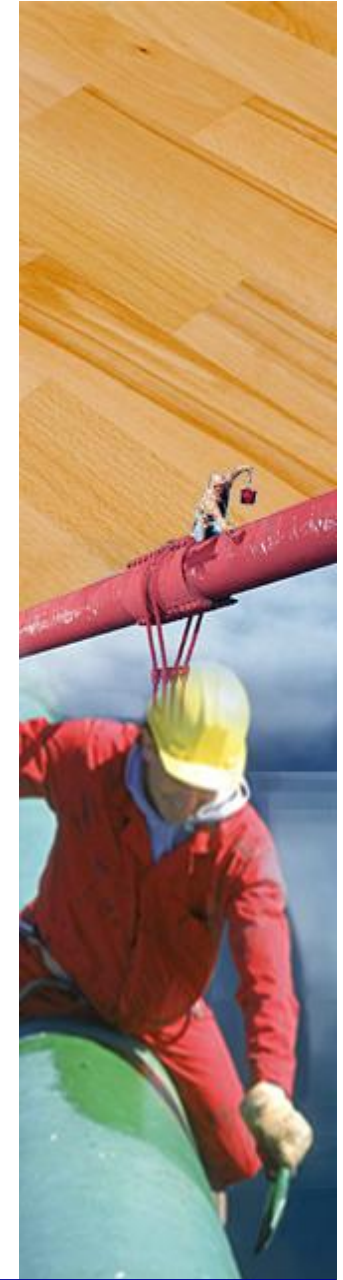
# Industrial Coatings

## 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



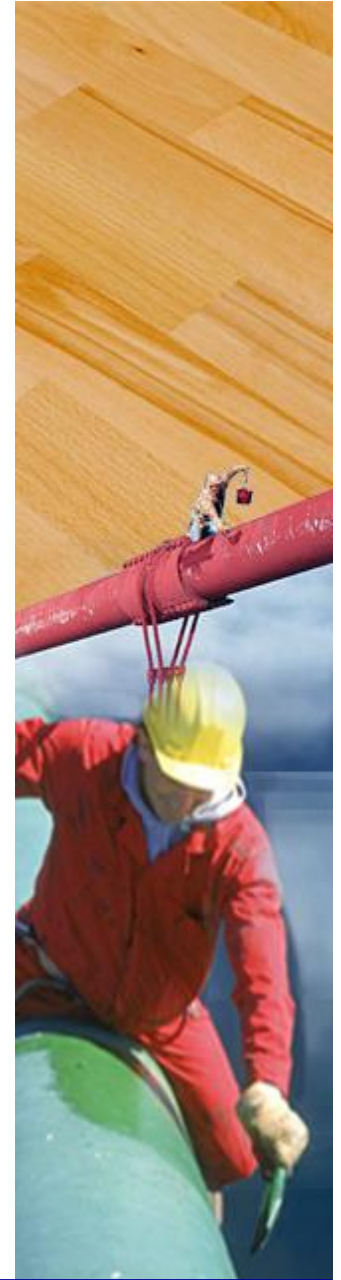


# Industrial Coatings

## 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**



