

■ OUR FURTHER DELIVERY PROGRAMME

■ MACHINERY & PLANT ENGINEERING

- Solar Sewage Sludge Drying
- Complete Solutions and Unit Components for Mechanical Sludge Drying
- Process Engineering
- Unit Components for Mechanical Waste Water Treatment
- Odourjet Compact Systems
- Spares

■ ENVIRONMENTAL ENGINEERING

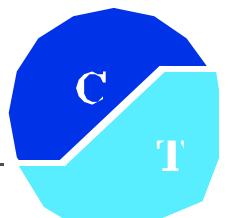
- Organic Polymers
- Inorganic Iron and Aluminium Salts
- Biochemical Products
- Dissolving, Dosing and Control Units
- Deodorisers
- Defoamers and Deaerators
- Decolourisation
- Special Products
- Consulting and System Analyses

■ PAPER TECHNOLOGY

- Polymers / Bentonites
- Cationic / Anionic Polymers
- Fixatives / Bentonites
- Modified Bentonites
- Defoamers and Deaerators
- Synthetic Thickeners
- Carboxymethylcellulose
- Polyvinylalcohol
- Starch and Starch Derivatives
- Deodorisers
- Special Products
- Machinery & Equipment
- Consulting Service and System Analyses

L I E
C H E M I C A L S
E N G I N E E R I N G S
T E C H N I K

T e c h n o l o g y i s o u r S u c c e s s



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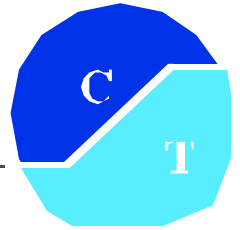
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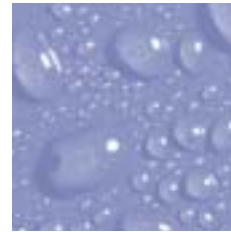
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INDUSTRIAL CHEMICALS



Our strong points:

- Additives for paints and construction materials
- Special chemicals

■ ADDITIVE FOR PAINTS AND CONSTRUCTION MATERIALS

LIQUID AND POWDER DEFOAMERS

Many dispersions or dispersion powders used in paints or construction materials contain emulsifiers, which reduce surface tension. As a consequence, foam can be produced in production, filling or application processes.

Defoamers prevent this effect. They penetrate the foam lamellas and thus destroy the foam. Liquid defoamers are used in paints, construction materials, printing inks and adhesives. Powder defoamers, on the other hand, are particularly used for priming materials, levelling materials, screeds, mortar, joint sealers, paints in powder form, adhesives and cement or plaster.

We supply you with highly effective defoamers on mineral oil, silicon, or paraffin basis, both in liquid and in powder form.



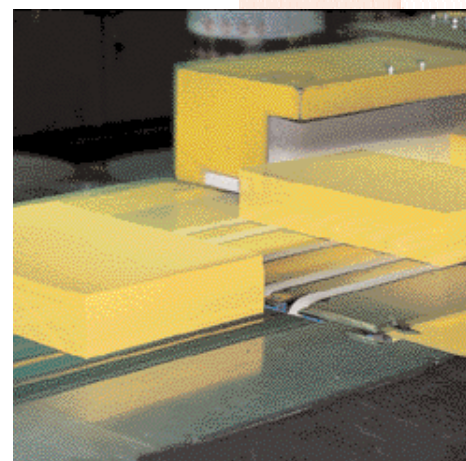
WETTING AND DISPERSING AGENTS (LIQUID AND POWDER)

It is almost always necessary to use wetting or dispersing agents for wetting and/or dispersing pigments or filling materials in an aqueous system.

Our range of products includes three major groups:

- 1** Inorganic salts of polycarbon acids for inorganic pigments and filling materials,
- 2** Non-ionogenic compounds for organic pigments and filling materials,
- 3** Substances that contain both functional groups in their polymeric structure and are suited for both inorganic and organic pigments, soot and filling materials.

Wetting and dispersing agents are used in paint and lacquer production, the adhesives industry and for construction chemicals.



■ SPECIAL CHEMICALS

THICKENERS

Thickeners, or rather rheology modifiers are mainly used in the field of adhesives, paints and lacquers.

We offer you our polyurethane or polyacrylate thickeners so that your system can feature the right thixotropy.

We offer three different thixotropy profiles:

- 1 Highly thixotrop for airbrush application,
- 2 Less thixotrop for paint brush or roller brush application,
- 3 Thickeners with nearly Newtonian properties.

WETTING AGENTS

Particularly in aqueous systems surface troubles do occur rather often, as for example the "orange skin" effect, crater formation or fish eyes. Acrylate or silicon containing additives are used to counteract these undesirable effects.

The latest development in this sector are wetting agents on the basis of succinic acid. These additives have the wide-ranging properties of a silicon wetting agent and are comparable to acryl containing wetting agents concerning the price.

ANTI-CONSTRUCTION AGENTS

These additives are successfully used in cement and gypsum containing construction materials to reduce fissure formation and the constriction of self-dispersing levelling materials. They are also frequently used in self-levelling floors or casting slips.



FILLING AGENTS

Our range of products also includes special 2-component filling agents, which are particularly suited for the following aqueous systems:

- Dispersion pigments
- Construction pigments
- Exterior and interior plaster
- Priming materials
- Sealants and
- Industrial lacquers and
- Road marking pigments

WATER REPELLENTS

They are primarily used in the production of concrete construction parts, but also in aqueous printing inks to increase impermeability.

ANTI-ADHESIVES

Suitable for:

- Stripping varnishes
- Hobby dyestuffs
- Transport coatings
- Spray chamber coatings

SPECIAL PIGMENTS AND DYESTUFFS

