



PRODUCT RANGE

COATINGS

ADHESIVES

CONSTRUCTION

BCD CHEMIE IN BRIEF



Our services

- Industrial chemicals and specialities: extensive range
- Excellent branch network: short channels, fast availability
- Container and packaged goods storage: delivery capacity for all volumes
- Company laboratories and formulation capacity: quality, safety, competence access to technical application laboratories for the construction, paint and coatings industries
- Chemicals-related services: BlendServ, formulations
- Logistics / hazardous goods logistics: reliability, delivery and supply guarantee 143 logistics centres (storage, transport, and formulation capacities) available throughout Europe

ADHESION PROMOTERS

Product	Product description
Silanes	Organofunctional products as a bonding bridge between organic and inorganic materials
Adhesion resins	Resins with adhesion-enhancing effect to various substrates
Fumed silica dispersions	Improving the intermediate adhesion of following layers
Fumed aluminium oxide dispersions	

BINDERS

Product	Product description
PMMA-Resins	Thermoplastic methacrylate resins for solvent-based applications
Saturated Polyesters	2K binder for can and coil coatings. 1K binder for flexible packaging
Polybutadiene	Highly flexible binders and co-binders for various applications
Pure acrylic dispersions	Pure acrylic dispersion for various applications in the paint, adhesive and construction sectors
Styrene acrylic dispersions	Styrene acrylic dispersions for various applications in the paint, adhesive and construction sectors
Vinyl acetate dispersions	Vinyl acetate dispersion for various applications
Silicone resin emulsions	Silicone resin emulsions for silicone dispersion paints
PMMA-Reactive resins	Fast curing methacrylate-based reactive resins, for heavy-duty floor coatings as well as road marking paints
Potassium water glass	Potassium water glass as a binder in silicate coatings and for consolidating mineral substrates

CATALYSTS

Product	Product description
Catalysts	Amine catalysts for various PU applications

CLEANING AGENTS

Product	Product description
Degreasing agent	Tailor-made cleaners for diverse applications
Paint remover	
Aqueous system cleaner	
PU cleaner	
Silicone remover	
Special solvent	

CORROSION PROTECTION

Product	Product description
Silanes	Organofunctional products as a bonding bridge between organic and inorganic materials Improvement of corrosion protection by generating a barrier effect in coating systems
Fumed silica	
Fumed silica dispersions	

DEFOAMERS

Product	Product description
Silicone defoamers	Defoamers for aqueous, solvent-based and solvent-free applications
Polymeric defoamers	
Mineral oil defoamers	
Acetylenediol	
Powder defoamers	Defoamers for use in dry-mix applications

FLAME RETARDANTS

Product	Product description
Phosphates	Proven flame retardants especially for PU systems

HYDROPHOBING

Product	Product description
Silanes	Solvent-based products for the hydrophobic treatment of surfaces
Siloxanes	
Silicone resins	
Siloxane emulsions	Hydrophobisation of aqueous coatings
Silicone resin emulsions	
Silane creams	Aqueous, silane-based creams for the hydrophobisation of mineral surfaces

IMPREGNATIONS

Product	Product description
Potassium silicate	Water-based systems for the impregnation of wood
Aminofunctional siloxanes	
Silane/Siloxane emulsions	
Pure acrylic dispersions	Water-based systems for the impregnation of wood and mineral substrates
Styrene acrylic dispersions	
Silicone-acrylic dispersions	

MATTING

Product	Product description
Aerogel	Nanoporous silica for the matting of difficult-to-matt systems

PIGMENTS + SLURRIES

Product	Product description
Titanium dioxide	Rutile chloride process, rutile sulphate process, anatase
Titandioxid-Slurries	
Pigment dispersions	Aqueous, surfactant-free pigment dispersions for inkjet applications

PLASTICISERS

Product	Product description
Citric acid ester	Plasticiser based on citric acid with a high bio-based content
Alkane sulphonates	Very well compatible plasticiser with high hydrolysis stability
Phosphates, phosphonates	Use as plasticiser and flame retardant
Adipates	Universally usable adipic acid esters with C 8 – C 10 chain length
Polymeric plasticisers	Polymer plasticiser with improved migration and extraction resistance compared to monomeric plasticisers
Sebacates	Cold-resistant plasticisers
Trimellitates	Temperature-resistant plasticisers
Benzoates	Dibenzoate plasticiser for coatings and emulsion paints
Glycerin triacetates	Plasticiser for cellulose derivatives
Phthalates	Standard plasticisers: dimethyl phthalate, diisononyl phthalate, 2-propyheptyl phthalate
Cyclohexancarboxylates	Phthalate-free plasticisers, especially for applications of products that come into contact with humans

RETARDERS

Product	Product description
Citric acid	Fruit acids as retarders in cementitious and gypsum-based systems
Tartaric acid	
Gluconates	Gluconates as retarder in gypsum-based systems

RHEOLOGY ADDITIVES

Product	Product description
Cellulose ethers (CMC, MHEC, MHPC)	Biobased thickeners for aqueous systems
Starch ethers	
Xanthan	
Fumed silicas	Hydrophilic and hydrophobic fumed silica for various binder classes
Layered silicates	Natural and synthetic layered silicate, for waterborne, solventborne and solvent-free systems
PU thickeners	Liquid and solid pH-independent thickeners for aqueous systems
Acrylic thickeners	Liquid thickeners for aqueous systems

SCATCH RESISTANCE

Product	Product description
Fumed aluminium oxide	Increased scratch resistance due to hard particles
Fumed aluminium oxide dispersions	

SOLVENTS

BCD Chemie offers all the major solvents currently in use, from standard solvents to special solvents. These include among others:

- Aromatics
- Alcohols
- Glycol ethers
- Aliphatics
- Esters
- Amines
- White spirits
- Ketones

SALTS AND SOLIDS

Salts of most acids and alkalis available and other solids.

ACIDS AND ALKALIS

For acids and alkalis, BCD Chemie also offers a comprehensive product range with all important acids and alkalis in various concentrations and purities:

Hydrochloric acid, sulphuric acid, phosphoric acid, formic acid, acetic acid, tartaric acid, fumaric acid, amidosulfonic acid, etc., NaOH prills, NaOH solutions, KOH, amines, and much more.

SURFACE ADDITIVES

Product	Product description
Acetylenediol	Additives to lower the surface tension for better wetting of the substrate and a smoother flow
Acetylene ethoxylate	
Silicone polyether	
Various silicone-free additives	

THERMAL INSULATION

Product	Product description
Aerogel	Nanoporous silica, which is the best thermally insulating solid. Used in thermally insulating coatings, adhesives and plasters

THINNERS

Product	Product description
Nitro thinner	Tailor-made thinners for diverse applications
Universal thinner	
Low-VOC thinner	
VOC-free thinner	
Washing thinner	

WETTING AND DISPERSING ADDITIVES

Product	Product description
Polyacrylic acid	Polyacrylic acid solutions, acidic and neutralised (Na salt) for dispersing inorganic pigments and fillers
Fatty acid esters and copolymers with pigment affinic groups	
Phosphoric acid esters	Wetting and dispersing agent for inorganic + organic pigments, fillers and carbon blacks
Rosin resin ester	

WATER RETENTION

Product	Product description
Cellulose ethers (CMC, MHEC, MHPC)	Cellulose ethers with high water retention
Starch ethers	Starch ethers with very high water retention

INNOVATION CENTER

COATINGS / CONSTRUCTION / ADHESIVES

Innovative, modern, user-oriented and variable laboratory services are the requirement these days for coping with the rapid transition in research, development and application technology.

The Innovation Center of BCD Chemie in Duisburg satisfies this need. A team of experts offers qualified and foresighted support with this, from the formulation of recipes in the laboratory and optimisation to the scale-up to market-ready products.

Our team carries out numerous different tests on coatings and adhesives, as well as on powder materials for the construction chemistry sector and liquid formulations, in accordance with current standards and in line with test regulations, and will advise you on new raw materials from the BCD product portfolio in order to optimise your formulas in terms of both quality and cost.

BCD Chemie offers these physical and application-specific tests, as well as characterisation of raw materials and formulations and the optimisation of recipes as a service.

Would you like to use the laboratory to support your own development?

Talk to your contact at BCD Chemie. They will pass you on to the responsible technicians. Or get in touch with our experienced technicians directly:

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BLENDSERV

Services include chemical raw material mixtures, intermediates and “ready to use” mixtures

Plant concepts

- “solid - liquid” dispersions (slurry) and solutions
- “liquid - liquid” emulsions and solutions

Technical data

Agitator volumes:	pilot plant 500 l up to the production of 30 m ³ batches
Agitator equipment:	dissolver disc, jetstream mixer, dispermix, Conti TDS Inline disperser
Thermodynamics:	cooling/heating 15-90 degrees Celsius
Engine power:	18 to 90 kW
Viscosity:	up to 10,000 mPa·s

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