



□ · BASF

We create chemistry

Resins and Additives with Bio-Renewable Content

We play an active and responsible role in enabling
our customers' sustainable transformation.

Resins and Additives with Bio-Renewable Content

BASF understands the sustainability drivers in the industry



Circular Economy End of Life

- Resource re-use
- Longer/extended life/durability
- Waste prevention/reduction
- Compostability/recyclability

Biodegradable Renewable

- Renewable sourced
- Biodegradable
- Bio-Monomers

CO₂ Reduction

- Reduce fossil-based materials
- Reduce material use
- Reduce emissions
- Implement circular economy

Safety and Environmental Care

- Food contact safe
- Low environmental impact
- Materials of concern

Key Features and Benefits

Climate protection, the circular economy, and sustainable solutions serve as three key pillars of BASF's dedication to sustainability. As an essential aspect of our strategy, climate protection drives BASF's commitment to reducing Scope 1 and 2 greenhouse gas (GHG) emissions by 25% by 2030, while also targeting a 15% reduction in Scope 3.1 emissions. BASF is dedicated to achieving net zero carbon dioxide (CO₂) emissions by 2050. In the circular economy, BASF aims to double its sales generated from loop solutions to €10 billion by 2030. For sustainable solutions, BASF set a target of €22 billion in Accelerator sales by 2025, a goal we successfully achieved in 2021.



Reduce Emissions

- ✓ CO₂ and VOC reductions with water-based inks and coatings



Health and Safety

- ✓ Glycol ether free
- ✓ Water-based technology



UN SDG's Goals

- ✓ Enable Brand Owner
- ✓ Accompanies UN goals



Waste Reduction

- ✓ Use less fossil resources
- ✓ Reduce plastic waste



Renewables

- ✓ Bio-renewable content
- ✓ Plant-based to complement cellulose



Certifications

- ✓ Food Contact compliance*
- ✓ Eco-Certification*



BASF developed the Joncryl BRC series with a varied toolbox of renewable feedstock, biopolymers, and bio-oligomers in replacement of traditional feedstock. For the Printing and Packaging industry, our products offer excellent transfer and color strength with outstanding resolubility on press. For the Furniture, Flooring and Industrial Coatings industry they provide protection and resistance properties.

Product	Bio-Renewable Content [%]	Tg [°C] or MFFT	Solids [%]	pH	Printing and Packaging	Industrial Coatings	Furniture and Flooring	Product Description
Joncryl BRC Portfolio								
Joncryl BRC 662	52	100	43	2.5	✓			Colloidal emulsion partly based on renewable raw materials for use in pre- and post-print corrugated inks and kraft paper applications
Joncryl BRC 6824	50	-31	47	7.9	✓			Film-forming emulsion partly based on renewable raw materials for use in water-based inks on paper substrates
Joncryl BRC 6890	50	105	45.5	8.3	✓			Emulsion partly based on renewable raw materials for use in water-based inks and overprint varnishes
Joncryl BRC 6896	--	--	40	8.5	✓			Ammonia based high performance dispersion resin solution for high concentrated pigment dispersion to be used in water-based inks
Joncryl BRC 9631	20	30	39.5	7- 8		✓	✓	Universal self x-linking acrylic dispersion with 20% renewable carbon, for interior wood coating with high wet film clarity, low solvent demand and high chemical and scratch resistance
Joncryl BRC 9630	10	35	40.5	7.5		✓	✓	Universal self x-linking acrylic dispersion for interior wood coating with high wet film clarity and excellent chemical and scratch resistance

* Please consult with our Product Safety and Stewardship Regulatory Team

Additives

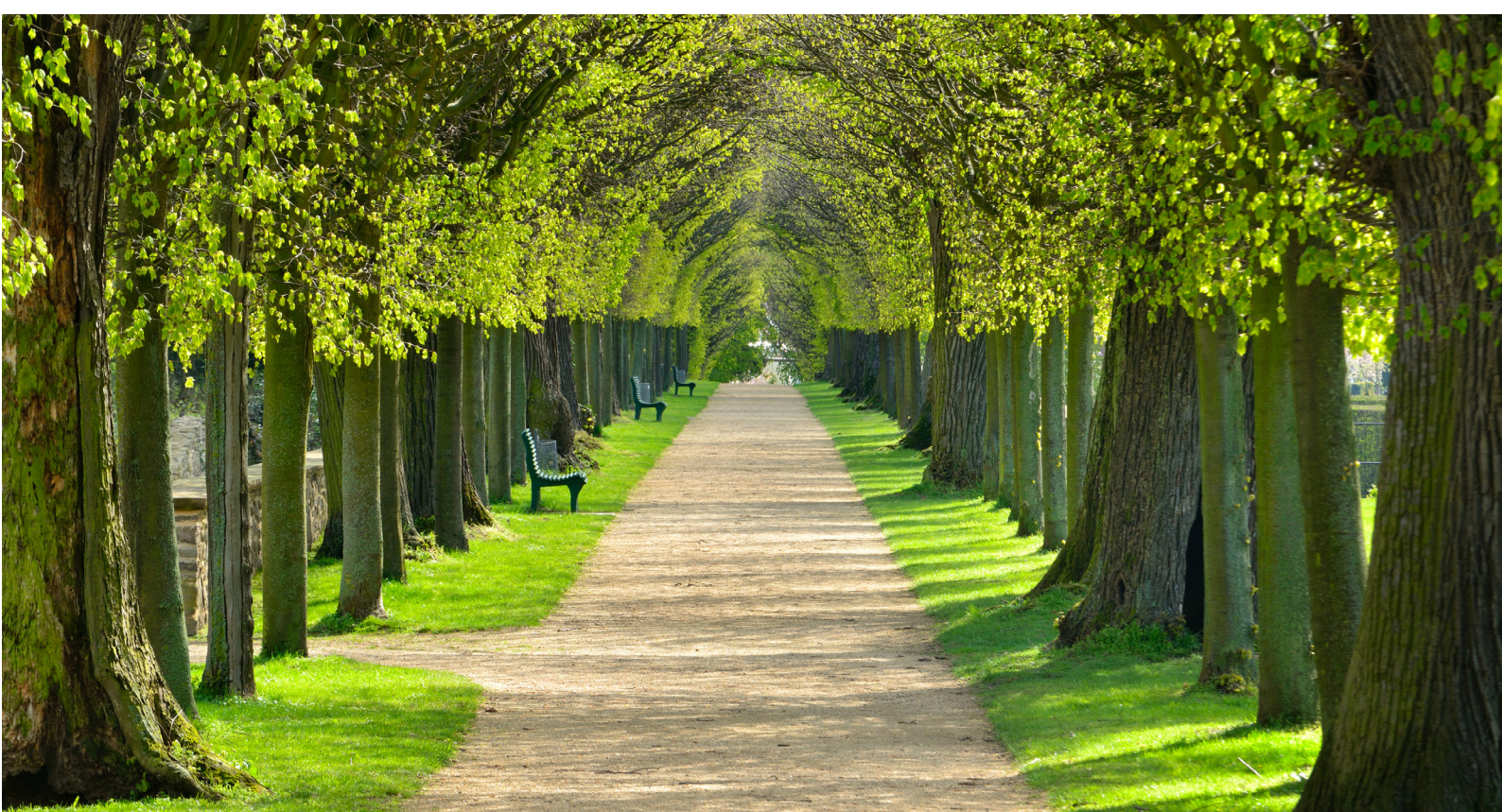
BASF offers a strong portfolio of industry leading additives with renewable content that help to enable sustainable and performance-driven solutions; our broadest technology of Dispersing Agents, Wetting Agents & Surface Modifiers, Defoamers, Rheology Modifiers, Film-Forming Agents, Light Stabilizers and Antioxidants commit to the solutions beyond regulatory requirements enabling biocide-free, eco-label and improved efficiency in process. Our Additives range offers global registrations, compliance with food contact regulations and contributes across the coatings value chain: providing efficient material handling during production, storage, application with increased performance and extended durability of coatings and final consumer products, reducing the need or re-coating and increasing sustainability.



Product	Bio-Renewable Content [%]	Solids [%]	pH	Printing and Packaging	Industrial Coatings	Furniture and Flooring	Product Description
Dispersing Agents							
Dispex Ultra FA 4420	55	100	~ 5		✓	✓	Universal dispersing agent that stabilizes both inorganic and organic pigments in water or solvents, enhancing compatibility and color acceptance in base paint
Dispex Ultra FA 4425	22	50	~ 6		✓	✓	Stabilizes all kinds of pigments and extenders in water and solvent-based systems, especially in decorative coatings
Dispex Ultra FA 4480	20	80	~ 6.5	✓	✓	✓	Universal non-ionic wetting and dispersing agent with excellent pigment wetting properties, which lead to improved color acceptance, enhanced gloss, and increased storage stability
Dispex Ultra FA 4425	22	100	--		✓	✓	Designed for universal colorants used in decorative tinting systems. It provides colorants with excellent compatibility and stability, as well as a strong affinity for aromatic-free alkyd paints
Dispex Ultra FA 4437	42	>99	~ 7-8	✓	✓	✓	Non-ionic wetting and dispersing agent for aqueous formulations; especially designed for organic pigment concentrates
Dispex Ultra PA 4501	58	--	--		✓		Product shows good pigment wetting and stabilizing performance and excellent compatibility with various resins systems
Efka FA 4644	40	52	~ 6-8		✓	✓	Low-molecular-weight dispersing agent is suitable for solvent-based and solvent-free systems; it effectively reduces the interfacial tension between pigments and extenders
Efka FA 4665	33	52	~ 5-8		✓		Dispersant for polyurethane systems and stoving enamels; also for orientation of aluminum pigments in CAB automotive base coats
Efka FA 4666	42	52			✓		Dispersant for polyurethane systems and stoving enamels; strong anti-settling effect
Rheology Modifiers							
Efka RM 1900	100	100	--	✓	✓	✓	A thickening agent in micronized form for nonaqueous coatings; it is particularly intended for use in paint manufacturing processes involving relatively high working temperatures
Efka RM 1920	100	99	~ 6-8	✓	✓	✓	A particularly finely ground additive used to impart a thixotropic effect to paints, printing inks and other coatings

Additives

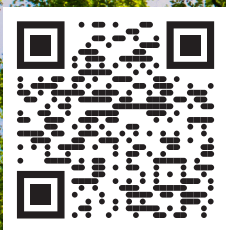
Product	Bio-Renewable Content [%]	Solids [%]	pH	Printing and Packaging	Industrial Coatings	Furniture and Flooring	Product Description
Defoamer							
FoamStar SI 2210 NC	39	100	--	✓	✓	✓	100%-active-content defoamer for non-pigmented and low-pigmented aqueous coatings, printing inks, adhesives and UV-curable systems; offers strong spontaneous defoaming effect; outstanding long-term defoaming persistency
FoamStar SI 2217	73	100	4.5	✓	✓		Highly effective defoamer for aqueous pigment concentrates and systems with high surfactant content
Foamaster NO 2306	51	100	~ 8.5	✓		✓	Universal defoamer partly based on natural oils; effectively removing of micro-foam
Foamaster NO 2331	98	100	8.1	✓			Native oil-based defoamer for monomer stripping in latex manufacturing and emulsion polymerization; specifically designed to have broadest food contact compliance
Wetting Agents & Surface Modifiers							
Hydropalat WE 3120	38	>99.5	~ 6-7.5	✓	✓	✓	Low-foaming wetting agent for aqueous formulations; excellent reduction of dynamic surface tension, suitable for printing inks and adhesives
Hydropalat WE 3130	66	90	~ 6-7.5	✓	✓	✓	A low foaming wetting agent for aqueous coatings, recommended as a low foaming surfactant to provide excellent substrate wetting
Antioxidants (AO)							
Irganox 1076	54	100	~ 5.7	✓	✓		A highly effective, primary phenolic antioxidant for organic substrates such as coatings, plastics, elastomers, adhesives, waxes; it protects these substrates against thermo-oxidative degradation



Additives

Product	Bio-Renewable Content [%]	Solids [%]	pH	Printing and Packaging	Industrial Coatings	Furniture and Flooring	Product Description
Film-Forming Agents							
Efka PL 5381	100	100	--		✓	✓	Standard epoxy plasticizer which is extraction-resistant to many industrial agents; the migration resistance is comparable with polymeric plasticizers
Efka PL 5382	100	100	~ 6-8		✓	✓	Higher purified version of Efka PL 5381 with a slightly broader food contact range
Efka PL 5635	71	100	--		✓	✓	Plasticizer for nitrocellulose-, chlorinated rubber and PVC- systems as well as for cellulose acetobutyrate; low viscosity and volatility and excellent migration resistance
Loxanol CA 5140	94	100	--			✓	Highly efficient coalescing agent for interior / exterior paints, with benign toxicological profile and low odor
Loxanol CA 5310	83	>98	8.5	✓	✓	✓	Excellent balance of coalescent properties, low odor and as alternate to CMR-containing coalescing agents
Loxanol CA 5336	84	100	--			✓	Highly efficient odorless coalescent complying with VOC restrictions. Improves key performance properties of paints like minimum film forming temperature, odor and emissions at usually lower dosages than other coalescents (e.g. TMB)
Hindered Amine Light Stabilizers (HALS)							
Tinuvin 123	24	--	~ 6-7	✓	✓	✓	Non-basic HALS for acid catalyzed and oxidative curing coatings, improves yellowing resistance in direct-fired gas ovens





Connect with us

Insights | www.insights.basf.com

Website | www.basf.us/dpsolutions

Contacts

Please contact our technical service department for more help on formulating with products from BASF.

Asia

Phone: +852 2731-0111
dispersions-pigments-asia@basf.com

Europe, Africa, West Asia

Phone: +31 513 619-619
resins@basf.com

North America

Phone: +1 800 231-7868
dpsolutions@basf.com

South America

Phone: +55 11 2039-2300
packaging-sa@basf.com

BASF Corporation, Charlotte, NC

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, they are provided for guidance only. Because many factors may affect processing or application/use, BASF recommends that the reader make tests to determine the suitability of a product for a particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESCRIPTIONS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. In no case shall the descriptions, information, data or designs provided be considered a part of BASF's terms and conditions of sale. Further, the descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.

Joncryl[®], Erika[®], Loxanol[®], FoamStar[®], Foamaster[®], Tinuvin[®], Irganox[®], Hydropolat[®], and Dispex[®] are registered trademarks of BASF Corporation.

© BASF Corporation, 2025