hubergroup Chemicals

Designed in Germany – Made in India

hubergroup Chemicals is one of the largest manufacturers in the chemical sector, offering a broad product portfolio of specialty chemicals, including Pigments and Concentrates, Lamination Adhesives, UV-Monomers, and UV-Oligomers. With our custom manufacturing business, we can also design and manufacture products exactly to our customers' requirements. We are committed to innovation and excellence, offering a wide array of specialty chemicals tailored to meet the unique demands of our valued clients. To date, hubergroup Chemicals has developed into a major chemical supplier that sells its products to all over the world, in all business areas and to customers ranging from SMEs to large, world-renowned chemical companies.

Let's Stay In Touch

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hubergroup chemicals

Bio-based raw materials for UV Coatings

Advancing Sustainability in UV-Curable Coatings

BIO BASED

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Advancing sustainability with bio-based raw materials for UV Coatings

Key Facts: Our bio-based product portfolio is designed to minimize environmental impact while delivering high performance across various applications. With a focus on integrating renewable materials, we are dedicated to supporting a more sustainable future through responsible product development and production.

Our sustainability approach: hubergroup's carefully developed bio-based products offer reliable performance with an emphasis on sustainability. Our solutions are designed to help you meet your environmental goals.

Sustainable options for a large scale of industries:

- UV coatings
- UV printing inks
- Functional and decorative finishes

UV Monomers

Bio-based GPTA (Glycerol Propoxy Triacrylate) is a sustainable alternative to conventional acrylates, incorporating renewable glycerol derivatives to provide excellent reactivity, crosslinking density, and mechanical performance in UV-curable formulations while reducing reliance on fossil-based raw materials.

Product	Product Description	Bio Renewable Content	Functionality	Colour
		%		APHA
UHVM-22710	GPTA	14	3	≤ 50

Functional Resins

Our UV reactive Rosin Resins are a new technology in the market offering a sustainable alternative while maintaining high performance in UV-curable systems. With excellent suitability for LED curing, they can replace monomeric photoinitiators, improving formulation safety and efficiency. Their flexibility enhances adhesion to a wide range of substrates, including challenging surfaces, making them ideal for diverse applications. By combining sustainability with advanced functionality, these resins contribute to high-performance, eco-conscious coating solutions.

Product	Product Description	Bio Renewable Content	Viscosity	PI Content
		%	Pa s	%
UHVPI-22460	UV reactive Rosin Resin	55	N/A	10
UHVPI-22463	UV reactive Rosin Resin DPGDA (50:50)	27	2 - 4	5
UHVR-22461	UV inert Rosin Resin	59	N/A	N/A
UHVR-22464	UV inert Rosin Resin EOTMPTA (50:50)	29	110 - 120	N/A

Viscosity at 40 °C, D = 5/s

UV Oligomers

In the field of UV-curable coatings, bio-based UV oligomers offer an opportunity to combine high performance with improved sustainability. By incorporating renewable raw materials, these oligomers contribute to lowering the carbon footprint while maintaining the durability, chemical resistance, and fast curing properties expected from UV technology.

Product	Product Description	Bio Renewable Content	Viscosity	Average Functionality
		%	Pa s	
UHVO-17806	Polyester Acrylate	9	5 - 8	6
UHVO-17826	Polyester Acrylate	14	8 - 12	6
UHVO-019842	Polyester Acrylate	38	55 - 75	4
UHVO-22860	Polyester Acrylate	16	10 - 20	6
UHVO-221019	Polyester Acrylate BPA-free	10	100 - 130	6
UHVO-221020**	Polyester Acrylate BPA-free	12	4 - 6	6
UHVO-221022	Polyester Acrylate BPA-free	28	13 - 17	6
UHVO-221025	Polyester Acrylate BPA-free	15	1 - 1,4	4
UHVO-23922	Epoxy Acrylate 100%	20	100 - 120[3)]	2
UHVO-22912	Epoxydised Soy-bean Oil Acrylate	82	15 - 30[2)]	3 - 4

Any epoxy acrylate dilution available on request.
Viscosity at 20°C, D=5/s; 2) At 25 °C, D = 50/s; 3) At 40 °C, D = 5/s; **data from lab or pilot trials

Formulation Examples

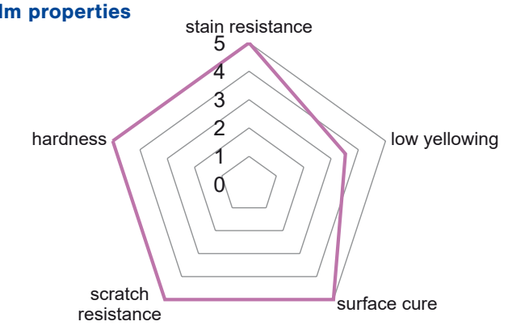
for Wood UV Top Coat, white - UHVO-221020

Excellent scratch resistance and hardness

Material	Amount (%)
UHVO-221020	27
UHVM-22704	10
UHVM-22709	8,5
Fillers / TiO2 / Matting Agent	29
Additives Package	2,3
Photo Initiator	5,2

Viscosity Brookfield LVDVI+ (spindle 63, 60 rpm) 1460 mPas

Film properties



for Wood UV Clear Coat - UHVO-221019

High bio-renewable content and excellent stain resistance

Material	Amount (%)
UVHO-221019	57,9
UHVM-22710	38,6
Levelling Additive	0,5
Photoinitiator	3

Viscosity (20 °C, D=50/s): 28 Pas, Bio-renewable content: ~32%

Film properties