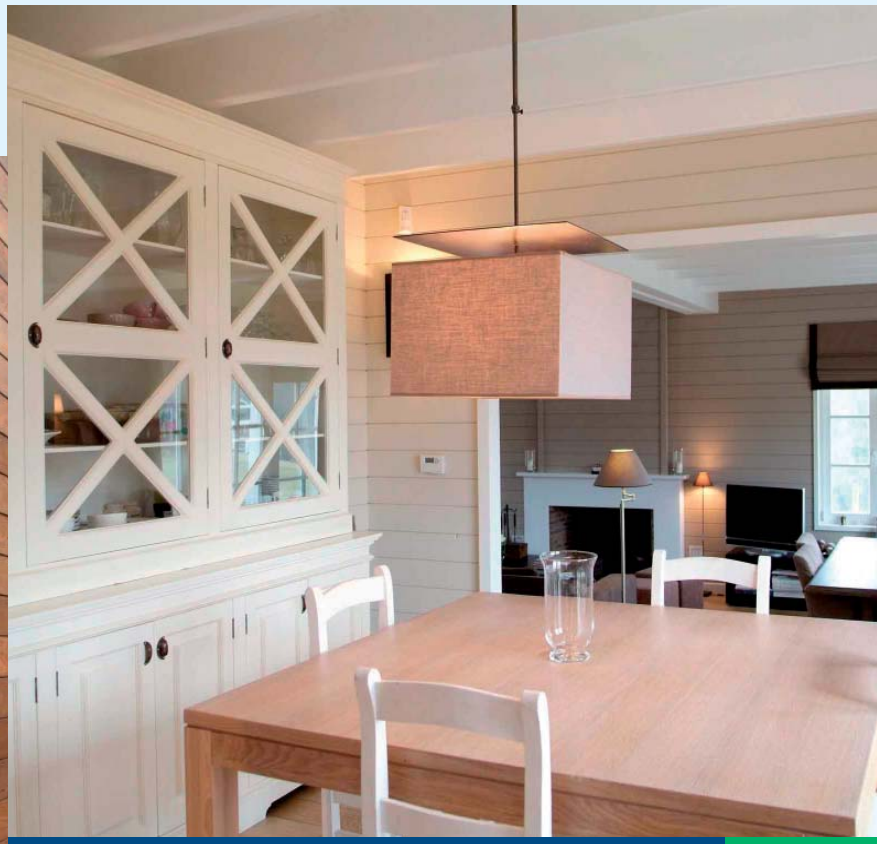
CYTEC



Wood Coatings

UCECOAT® UV curable waterborne resins

Europe, Middle East and Africa

UCECOAT ®

UV Curable Waterborne Resins for Wood Coatings

Cytec is the world leader in radiation curable resins and our broad range of products include eco-friendly and innovative UV curable waterborne resins.

The success of UV waterborne radiation curing technology is largely contributed by the outstanding performance of the coatings, very fast curing, low process costs per square meter of surface, and ecology compliance.

UCECOAT® UV curable waterborne resins enable application by different coating techniques (roller, spray, curtain and vacuum coating) and its low-solids content allows a nice open pore finish. With most of the UCECOAT UV curable polyurethane dispersions, it is possible to obtain a tack-free surface after physical drying so that dust collection is minimized and handling is easier.

The UCECOAT range of radiation curable polyurethane dispersions is designed to meet the most severe requirements for wood flooring, furniture and cabinetry top coats without using co-solvents. Now our UCECOAT range is enriched with new grades. UCECOAT 7631 is specifically developed for outdoor applications like window frames, shutters and panels. UCECOAT 7655 shows excellent scratch and chemical resistances, combined with good reactivity in both clear and pigmented indoor systems

The formulated coatings show outstanding adhesion on different woods, cork and paper. Furthermore, incomparable wood wetting can be achieved with UCECOAT 7177, an aliphatic urethane acrylate in water

EBECRYL 11, 12 and 13 are water dilutable 100% UV curable resins recommended for use in formulations with UCECOAT UV curable waterborne resins to improve performances and increase solid content.

A range of UCECOAT additives is also available for improved final performances of formulations made of UV PUD's. This range includes thickeners and defoaming additives.
For more details, please contact our specialists for a copy of our flyer on Additives for RADCURE®.

UCECOAT UV curable waterborne resins are used for outstanding adhesion and enhanced wood appearance.

UCECOAT UV curable polyurethane dispersions are used for top coats with exceptional stain and scratch resistance.

Products

- UCECOAT®(*) 6558
- UCECOAT 7177
- UCECOAT 7571
- UCECOAT 7772
- UCECOAT 7773
- UCECOAT 7849
- UCECOAT 6569
- UCECOAT 7570
- UCECOAT 7578
- UCECOAT 7631 NEW
- UCECOAT 7655 NEW
- EBECRYL®(*) 11
- EBECRYL 12
- EBECRYL 13

Chemical Description	Product features	Main Application	Solid %	Viscosity mPa.s @ 25 C	pH	Particles nm	MFFT °C	Xi-lable (1)
aliphatic urethane acrylate solution in water	- excellent adhesion on wood and wood wetting - high flexibility and non-yellowing - resoluble in water before UV cure	primer	50	ca 5000	-	-	-	no
aliphatic urethane acrylate in water	- excellent adhesion on wood and wood wetting - high flexibility and hardness - water re-emulsifiable before UV cure	primer base coat	40	< 200	7	< 150	< 0	no
aliphatic polyurethane dispersion	- tack free before UV cure, after water evaporation - excellent stain resistance, good hardness - good flexibility, adhesion and very good compatibility	top coat base coat	35	< 200	7.5	< 100	< 0	no
aliphatic polyurethane dispersion	- tack free before UV cure, after water evaporation - very good chemical resistance - good adhesion and hardness	top coat	40	< 200	7.5	< 150	< 0	yes
aliphatic polyurethane dispersion	- tack free before UV cure, after water evaporation - excellent stain resistance - high hardness and very good scratch resistance	top coat	39	< 200	7.5	< 150	< 0	yes
aliphatic polyurethane dispersion	- tack free before UV cure - good stain resistance and hardness - good adhesion and high flexibility - interesting for outdoor performance	base coat top coat	35	< 200	7.5	< 100	< 0	no
aliphatic urethane acrylate oligomer in water	- excellent adhesion on wood and wood wetting - high flexibility and non-yellowing - resoluble in water before UV cure	primer	95	ca 6000 (60°)	-	-	-	no
aromatic polyurethane dispersion	- tack free before UV cure, after water evaporation - nice wood wetting, excellent adhesion - high stain resistance and hardness - a lower cost alternative to the aliphatic range	primer base coat	35	< 500	7.5	< 150	< 0	no
aromatic acrylic polyurethane dispersion	- tack free before UV cure, after water evaporation - good adhesion on wood and flexibility - good wood wetting and good compatibility	primer base coat	38	< 200	7.5	< 150	< 7	no
aliphatic polyurethane dispersion	- tack free before UV cure, after water evaporation - Excellent outdoor resistance - good flexibility and hardness, stackable before UV cure after water evaporation	outdoor top coat	35	< 200	7.5	< 100	< 0	no
aliphatic polyurethane dispersion	- tack free before UV cure, after water evaporation - outstanding scratch and chemical resistances - good reactivity both in clear and pigmented systems	topcoat	35	< 200	7.5	< 150	< 0	yes
polyethylene glycol diacrylate	- 100 % water soluble - good flexibility	all	100	120	-	-	-	yes
polyether triacrylate	- partially water soluble up to 50 % - flexible, light colour and low viscosity - very good wood wetting	all	100	155	-	-	-	yes
polyethylene glycol diacrylate	- partially water soluble up to 55 % - very good diluting power - good flexibility, good stain resistance and toughness - light colour and reasonable reactivity	all	100	60	-	-	-	yes

(*) EBECRYL® UV/EB curable resins
(*) UCECOAT® UV curable waterborne resins
(1) Xi-lable: a NO in this column indicates the product does not require to be labelled as an irritant (Xi) in accordance with the European Commission Directive 671548/EEC, 1999/45/EC and their respective amendments and adaptations to technical progress published before April 2004. For a more detailed regulatory information, please, consult the Safety Data Sheet.

Contact Us

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