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 innovative UV curable water-borne resins.

The success of UV water-borne 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 water-borne 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 7710 is specifically developed for high mirror like effect coating finishes for wood and plastics. UCECOAT 7733 the Xi-free (non irritant) version of UCECOAT 7773 shows excellent scratch, abrasion and chemical resistances. UCECOAT 7699 developed for pigmented coatings exhibits outstanding scratch and stain resistances properties.

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 and 12 are water dilutable 100% UV curable resins recommended for use in formulations with UCECOAT UV curable water-borne 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 water-borne 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 6569
- UCECOAT 7177
- UCECOAT 7571
- UCECOAT 7631
- UCECOAT 7655
- UCECOAT 7699
- UCECOAT 7710 NEW
- UCECOAT 7733 NEW
- UCECOAT 7773
- UCECOAT 7849
- EBECRYL®(*) 11
- EBECRYL 12

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	-	-	-	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
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 - Excellent outdoor resistance - good flexibility and hardness, stackable before UV cure after water evaporation- tack free	Primer 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	top coat	35	< 200	7.5	< 150	< 0	yes
aliphatic polyurethane dispersion	before UV cure, after water evaporation - Very high reactivity in both clear and pigmented systems - Excellent stability - Easy to formulate	top coat	35	< 200	7-8.5	< 150	6	no
aliphatic polyurethane dispersion	- Excellent mirror effect without polishing - Good stain and solvent resistance - High hardness and scratch resistance - Tacky before curing	top coat	45	< 200	6-7.5	< 150	-	yes
aliphatic polyurethane dispersion	- Xi-free alternative to UCECOAT 7773 Slightly tacky before UV cure, after water evaporation - Outstanding hardness and scratch resistance - Excellent stain and solvent resistance	Primer top coat	38	< 200	7-8.5	< 125	6	no
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	< 100	< 0	yes
aliphatic polyurethane dispersion	- tack free before UV cure - good stain resistance and hardness - good adhesion and high flexibility - interesting for outdoor performance- High gloss	base coat top coat	35	< 200	7.5	< 100	< 0	no
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

(*) 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 67/548/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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