

POLYMER INNOVATIONS

POLYURETHANE DISPERSION



WATERBORNE POLYURETHANE DISPERSION
Robust and environmentally sound solutions for surfaces

For High Performance Wood; Floor Coatings; Plastic and Metal Coatings.

TECHNOLOGIES FOR A SECURE FUTURE



**The key to creating added value for you,
as well as for society and the environment is innovation.**

Waterborne resins use water as a solvent to disperse a resin, thus making these resins environmental friendly and low in toxicity and flammability. Traditional waterborne resins were water reducible resins, which are products dissolved at high solids content. More modern products are diluted in water already in form of delivery, many still contain small amounts of solvent to help film building and production process.

The trend is to reduce the content of coalescing and process solvents even more, often targeting close to zero VOC in order to meet regulatory demands in critical markets.

WE provide water-borne polyurethane dispersion PUD for use in high performance wood floor coating formulations. Our PUD exhibits excellent optical transparency, high flexibility and extremely good abrasion, water and UV resistance. These properties, combined with excellent gloss and chemical resistance, make an excellent choice for both clear and pigmented coatings for use on wood flooring.



VARATAN; PUD, polyurethane dispersions, water-based

Product	Solid [%]	Solvent	Viscosity [mPa.s]/20°C	pH content	Main uses and characteristics
PU 1000	30	Water	20 – 200	7.5 – 8.5	Polyuretahen dispersion, used in wood and parquet coatigs, good chemical and abraisen resitance.
PU R-974	40	Water / NMP	100 – 300	7.5 – 8.5	A hard, low cosolvent containing polyuretahen dispersion, used in wood and parquet lacquers, metal and plastic coatings, water resistant floor polishes. Prosses hard, good chemical and abraisen resistance, offers good humidity resistance.
PU 2000	30	Water	900 – 1.500	7.7 – 8.0	Polyuretahen dispersion, used in wood and parquet coatigs, good chemical and abraisen resitance.
PU M-36	38	Water	max. 140	8.0 – 9.5	PUD water-based dispersion and wax emulsion for the manufacture of dry-bright emulsions intended for floor polish, automotive polish, shoe polish and leather polish applications.
PU 1065	42	Water / NMP (2-3%)	max. 500	7.5 – 8.5	Polyuretahen dispersion, used in wood and parquet coatigs, metal coating, good chemical and abraisen resitance.
PU 2500	30	Water	max. 100	7.0 – 8.5	PUD water-based dispersion for the manufacture of dry-bright emulsions intended for wood, flexible coatings, plastic coating.
PU 910	30	Water	max. 100	7.5 – 8.5	A self-crosslinking, aliphatic polyester polyurethane dispersion that can be formulated for high-performance coatings for wood and plastic. It has excellent hardness and black heel mark resistance, excellent chemical and plasticizer resistance, high gloss, excellent adhesion to multiple substrates and excellent fingernail mar resistance.
PU 6100	36	Water	max. 200	8.0 – 9.0	An aqueous, colloidal anionic, low viscous dispersion of an aliphatic polyester-polyurethane without free isocyanate groups, very good on ABS, PC, PVC, PU, PA and PS, with very good pigmentability, suitable for automotive base coats, if combined with acrylic dispersions. Good plastizer barrier on PVC-foils.
PU 610	30	Water	max. 100	7.5 – 8.5	An aqueous, colloidal, low viscous dispersion of an aliphatic polyester-polyurethane. Used for automotive OEM top coats and base coats. Offers very good pigmentability. Blocking temperature 140°C and MFT 0°C.
PU 1228	38	Water	max. 10.000	7.0 – 8.0	The special manufacturing process of PU 1228 allows a high urethanization, which leads to a faster hardness development and drying. The combination of physical drying and oxidative curing makes it possible to achieve high chemical resistance without using siccatives. PU 1228 is recommended for the manufacture of waterborne wood coatings.



VARENA CHEMICAL is a global company in the intermediates, coating, adhesives, inks and composite and solid surface resins, thermoset compounds, gel-coats and niche specialties and specialty additives for coatings and inks.

VARENA CHEMICAL is known for its superior quality and impressive range of products and with its excellent distribution network it can provide first-class service to customers whatever their market. Customer Service and Technical Service teams are renowned for their customer focus, offering the best service even after products have left manufacturing.

The group strives to keep customers satisfied, assisting them in producing premium quality products every time they use its products.



Product innovation is important for the group's business and it's the reason for which it constantly works with customers to find solutions to problems.

Introducing new or improved products ensures that VARENA CHEMICAL continue not only to deliver what the market wants and needs, but also when it is wanted and needed.



THE SPECIALITY SUPPLIER FOR COATINGS; INKS; ADHESIVES & SOLID SURFACE