



ANWIN ENTERPRISES (TAIWAN) CO., LTD.

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WINTPOX Epoxy Reactive Diluents

WINTPOX Reactive Diluents are glycidyl ether type epoxy diluents derived from hydroxyl-containing compounds, such as alcohols, glycols, polyglycols, alkylphenols and epichlorohydrin.

WINTPOX Reactive Diluents are used primarily as viscosity reducers and/or performance modifiers for conventional high viscosity epoxy resins to prepare epoxy formulations used in a variety of applications such as adhesives, coatings, floorings, composites, civil engineering, casting, tooling, pottings and encapsulations.

Features

- Very low viscosity relative to conventional epoxy resins.
- 100% non volatile for easily preparing lower VOC, higher solids or 100% solids epoxy formulations
- Compatible at all concentration with epoxy resins, excellent diluting effect,
- Improve workability in formulation and processing.
- Excellent wettability to substrate and filler,
- High filler loadings, resulting in cost reduction,
- Can be cured with variety of epoxy hardeners to become part of cured epoxy system,
- Can be used to optimize performance properties of cured epoxy system, when properly formulated.

We offer the following categories of WINTPOX Reactive Diluents :

- A. Mono-functional aromatic types
- B. Mono- functional aliphatic types
- C. Di- functional aliphatic types
- D. Tri- functional aliphatic types



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A. Mono-functional type :

Product Name (WINTPOX)	EEW (g/eq)	Viscosity (cps) @25°C	Color (APHA) Max.	Comments
196	200~233	5~8	60	Glycidyl ether of Benzyl alcohol, low viscosity, low vapor pressure , Good diluting effect in reducing the viscosity of epoxy formulations.
197	173~182	5~10	50	Cresol glycidyl ether. Low volatile, high reactivity, improved heat resistance, chemical resistance and electrical properties. Very good retention of physical properties of cured epoxies system.
198	167~182	5~10	150	Phenyl glycidyl ether(PGE). Low volatile, high reactivity, provide good water resistance, chemical resistance and electrical properties.
387A-1	133~143	≤ 2	40	Aliphatic diluent based on butyl glycidyl ether (BGE), very low viscosity excellent dilution effect. High vapor pressure.
387A	147~158	≤ 2	40	
140	286~313	6~12	60	C ₁₂₋₁₄ Aliphatic glycidyl ether(AGE). Low volatile and low toxic. Good diluting effect, good wetting and air release behaviour, improving toughness, flexibility and impact resistance of cured epoxy system..
142	223~259	3~8	80	Aliphatic monoglycidyl ether of 2-ethylhexyl alcohol, low volatile, low toxic . Efficient viscosity reduction, improving flexibility and impact resistance



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Di-functional type :

Product Name (WINTPOX)	EEW (g/eq)	Viscosity (cps) @25°C	Color (APHA) max	Comments
210	139~154	15~25	60	Neopentyl glycol diglycidyl ether. Low volatility, higher reactivity, improved chemical and heat resistance compared to monofunctional aliphatic diluents
256	145~154	15~25	60	1,6-Hexanediol diglycidyl ether. Low volatile, higher reactivity, provide improved substrate wetting and high filler loading, suitable for use in impregnation and composite applications.
266	125~136	10~20	40	1,4-Butanediol diglycidyl ether, low viscosity. Excellent reactivity and better diluting effect, exhibit excellent substrate wettability, suitable for use in impregnation and composite applications.
681	278~358	40~70	100	Diglycidyl ether of polypropylene glycol, flexible, low viscosity resin. Useful as a diluent and flexibilizer, improving flexibility, elongation and impact resistance.
671	625~910	90~140	100	Diglycidyl ether of polypropylene glycol, higher EEW value. Flexibilizer to improve the toughness of brittle cured epoxy system.
683	150~179	20~30	100	Polyethyleneglycol diglycidyl ether. Very low viscosity. Good diluting effect, impart flexibility, improved impact resistance and thermal shock resistance.



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C.Tri- functional aliphatic type:

Product Name (WINTPOX)	EEW (g/eq)	Viscosity (cps) @25°C	Color (APHA) max	Comments
252	125~147	100~160	100	Trimethylolpropane triglycidyl ether, low viscosity. Excellent reactivity, provide excellent crosslinking density, suitable for preparing solvent free formulations used in coatings and adhesives.