

Product Description

K2P Phenalkamines are range of epoxy curing agents (synthesized from Cardanol). Fast replacing polyamides and polyamines which are more frequently used curing agents. Fast and low temperature (< 5 deg C) cure properties of phenalkamines are of advantage to coating formulations. unique water resistance properties and temperature insensitive cure provided by this chemical Application productivity is significantly improved. Faster cure helps re-coating or returning to service more rapidly. Solvent free formulations that will continue to cure when immersed in water and solvent based coatings that will continue to cure in poorly ventilated conditions. In forced cure industrial coating applications, K2P Phenalkamines can help save energy by lowering oven cure temperatures. Adhesion to poorly prepared or tough wet surfaces, such as water saturated concrete is especially good with K2P Phenalkamines because this hydrophobic effect ensures surrounding water does not influence the surface resin bond.

Application Information

Unique properties of K2P Phenalkamines make them an excellent choice for marine and offshore coatings, solvent-free industrial floor coatings, railcar and agricultural / construction equipment coatings, and tank and pipe linings. They are also used for adhesive, automobile, and electrical potting applications.

Phenalkamine for Metal coatings**Typical Properties**

	K2P-5408	K2P-5418	K2P-5418x90	K2P-5418LV
Solids (% min)	95 min	95 min	88 min	95 min
Viscosity (cPs, @25 deg C)	2000~3000	20000~30000	2000~3000	2000~3000
Apperance	Reddish brown clear liq.	Reddish brown clear liq.	Reddish brown clear liq.	Reddish brown clear liq.
Gardner colour	17 max	17 max	17 max	17 max
AHEW (g./eq.)	81	130	144	125
Amine Value (mg KOH/g)	500~550	340~370	300~350	300~350
Density (g/ml @25 deg C)	0.98~1.02	0.98~1.02	0.98~1.02	0.98~1.02
Gel Time (mins, 100gm @25 deg C)	30~50	20~35	30~45	20~35
Recommended PHR* (for EEW-190)	40±5	65±5	65±5	40±5

*PHR = Parts per Hundred grams of Resin

Phenalkamine for Concrete coatings**Typical Properties**

	K2P-5588	K2P-5008	K2P-5668
Solids (% min)	95 min	95 min	95 min
Viscosity (cPs, @25 deg C)	500-1500	500-1500	700-2000
Apperance	Reddish brown clear liq.	Reddish brown clear liq.	Reddish brown clear liq.
Gardner colour	17 max	17 max	17 max
AHEW (g./eq.)	95	130	95
Amine Value (mg KOH/g)	315-365	250-290	350-385
Density (g/ml @25 deg C)	0.97~0.99	0.97~0.99	0.98~1.02
Gel Time (mins, 100gm @25 deg C)	30-40	30-40	20-30
Recommended PHR* (for EEW-190)	50-65	65-70	50

*PHR = Parts per Hundred grams of Resin

Modified Phenalkamine - Adduct system

Typical Properties

	K2P-5628	K2P-5568x80
Solids (% min)	63 min	75 min
Viscosity (cPs, @25 deg C)	500-2000	2500-8000
Apperance	Orange brown clear liq.	Reddish brown clear liq.
Gardner colour	15 max	16 max
AHEW (g./eq.)	174	135
Amine Value (mg KOH/g)	155-200	310-350
Density (g/ml @25 deg C)	0.95~0.97	0.98~1.02
Gel Time (mins, 100gm @25 deg C)	100	45-55
Recommended PHR* (for EEW-190) *PHR = Parts per Hundred grams of Resin	100	85±5

The above typical Properties are for general information only and should not be used for specification purposes. Performance characteristics may vary depending on specification application. All products should be tested in customer's formulation prior to use.

K₂P CHEMICALS

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Product Description

K2P epoxy modifier series (synthesized from Cardanol) are multi-purpose resin modifiers. Environment friendly coats and adhesives products can be formulated using these resin. Hydrophobic in nature allows good corrosion and water resistance, Imparts flexibility and good salt water resistance.

Application Information

K2P epoxy diluent series is designed to reduce VOC levels and modify viscosity for coating systems. Widely used in heavy duty marine protection, industrial, and floor coatings. These diluents rapidly reduce viscosity to provide improved ease of application, improved pigment/filler wetting and improved application properties. Modifiers provide flexibility, toughening, improvement of water resistance and adhesion.

Typical Properties

	K2P 20208	K2P 5138	K2P 5478
Solids	98.5 min	98.5 min	98.5 min
Viscosity (cPs, @25 deg C)	90~100	30~60	20000-50000
Colour	Orange-Brown	Reddish-Brown	Reddish- Brown
Hydrolysable chlorine %	NA	<2	3 max
Epoxy Equivalent Weight	NA	470~520	550-850
Recommended PHR*	10~20	2~20	2~20

(for EEW-190) *PHR = Parts per Hundred grams of Resin

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