

Hypomer MT-2550K

Functional Matting Resin

GENERAL INFORMATION

Hypomer MT-2550K is a hydroxyl acrylic resin that gives excellent matting effect yet better clarity and transparency than conventional 2K PU coatings formulated with matting agents e.g. silica.

Hypomer MT-2550K is based on special chemical reaction process to generate crosslink particle during the reaction and provide matting effect and other benefits better than silica based matting coatings.

CHEMICAL & PHYSICAL PROPERTIES

Composition	hydroxyl acrylic copolymer
Appearance	white to milky viscous liquid
Non-volatile content	48.5 - 52.0 %
Solvent	n-Butyl acetate/propylene glycol monomethyl ether acetate/methylcyclohexane
Specific gravity	ca. 1.02
Dynamic viscosity	2000 - 12000 cP (25 °C)
Acid value	15.0 - 40.0 mg KOH/g (100 %)
OH value	ca. 41.3 mg KOH/g (as received)
OH %	ca. 1.25 % (as received)
Tg	ca. 66 °C (measured by DSC)

These are typical properties not to be used for specification purposes.

APPLICATIONS

- Plastic coatings
- Industrial coatings
- Wood coatings
- Transportations
- Inks

KEY PROPERTIES

- Excellent matting function
- Good scratch resistance
- Good weather resistance
- Good touch feel
- Environmentally friendly solvent composition
- Easy incorporation
- Homogenous gloss level over a wide range of dry film thickness leads to a wider application window

SOLUBILITY

	Dilution
Mineral spirit (B.P. 100 - 140 °C)	-
Toluene	+
Xylene	+
Ethyl acetate	+
n-Butyl acetate	+
Methyl ethyl ketone	+
Propylene glycol monomethyl ether acetate	+
+ = soluble	
o = limited soluble	
- = insoluble	

COMPATIBILITY

	Resin Solution	Dried Film
Hypomer FX-2050	+	+
Hypomer FX-2052	+	+
Hypomer FX-2060AF	+	+
Hypomer FX-2451F	+	+
+ = compatible		
o = limited compatible		
- = incompatible		

INCORPORATION

Due to its thixotropy, viscosity increase upon storage is possible. In order to get the best performance, please stir well before use.

Basically, **Hypomer MT-2550K** is compatible with most of low hydroxyl value acrylic resins. Gloss adjustment is achievable by mixing **Hypomer MT-2550K** with other acrylic resins. Mixing ratio should be determined experimentally.

Sedimentation may occur after diluting to lower viscosity. Formulate with anti-settling agent is recommended.

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HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

Keep away from sources of ignition and heat, as well as container tightly closed in a dry and well-ventilated place.

Stored between 0 °C to 40 °C.

SHELF LIFE

Hypomer MT-2550K has a shelf life of 12 months from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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V02 Mar. 2019

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