

Advanced Materials

Phenoxy PKTMHS-40[#]

COATINGS INDUSTRY SYSTEMS

DATA SHEET

Phenoxy PK™HS-40 is a 40% NV solution of Phenoxy resin in methyl ethyl ketone (MEK).			
Applications	<ul style="list-style-type: none">Thermoset CoatingsAdhesives/SealantsCan and Coil CoatingsZinc Rich Coatings		
Properties	<p>Phenoxy PK™HS-40 is a 40% NV solution of Phenoxy resin in methyl ethyl ketone (MEK).</p> <p>Phenoxy resins (polyhydroxyethers) are tough, ductile, amorphous, thermoplastic polymers having excellent thermal stability, adhesive strength, and vapor barrier properties. Phenoxy resins may be crosslinked by reacting its hydroxyl functional groups with isocyanates, melamine resins, or phenolic resins. Crosslinked phenoxy resins exhibit excellent chemical resistance, hardness, and adhesion on many substrates including steel, aluminum, glass, carbon fibers, and plastics such as nylon and polyester (PET).</p> <p>Phenoxy PK™HS-40 can be reduced with additional MEK to attain lower viscosities, however below about 22% solids, the solution may phase separate. The addition of 1% by weight of water will permit stable solutions below 22% solids. Coatings of Phenoxy PK™HS-40 exhibit excellent levels of flexibility and toughness when appropriately cured.</p>		
Key data	Specified key data		
	Non-Volatiles	39-41	[%]
	Viscosity @ 25 °C	4500-7000	[mPa s]
	Color	0-200	[APHA]
	Specified key data are individually checked throughout and guaranteed.		
	Typical key data		
	Molecular Weight (Weight Average Phenoxy PK™HB)	50 000 – 62 000	[Daltons]
	OH Equivalent Weight (solids basis)	280	[g/equiv.]
	As-supplied form	Solution	
	Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	2 years at least	
Hazardous decomposition products (when disposed of in fire)	carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases and vapours		
Disposal	regular procedures approved by local authorities		
Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed.			

[#] In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, CI = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

Storage	Phenoxy PK™HS-40 should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40°. The product should not be stored exposed to direct sunlight.
Handling precautions	Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets.

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