Desmophen® A 160 X

Type	Hydroxyl-bearing polyacrylate
Form supplied	approx. 60 % in xylene
Uses	As a co-reactant, primarily with Desmodur® N, in the formulation of two-component polyurethane coatings with good lightfastness and resistance to chalking.

Specification

Property	Value	Unit of measurement	Method
Hazen color value	≤ 50		DIN EN 1557
Acid value	4 ± 2	mg KOH/g	DIN EN ISO 2114
Viscosity at 23 °C	1800 ± 500	mPa·s	DIN EN ISO 3219/A.3
Non-volatile content (1 g resin/1 h at 125 °C)	60 ± 1	%	DIN EN ISO 3251
Hydroxyl content	1.6 ± 0.3	%	DIN 53 240/2
Water content	≤ 0.1	%	DIN 51 777/1

Other data*

Property	Value	Unit of measurement	Method
Equivalent weight	approx. 1065		
Density at 20 °C	approx. 0.98	g/ml	DIN EN ISO 2811-2
Flash point	approx. 25	°C	DIN EN ISO 1523

*These values provide general information and are not part of the product specification.

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Solubility / thinnability	Desmophen A 160 X can be thinned to a resin content of 30 % using ketones, esters, ether esters, toluene, xylene and solvent naphtha 100. However, the solutions formed must be tested for their storage stability. Only PU grade solvents should be used (< 0.05 % water). They should contain no other reactive impurities.
Compatibility	Generally speaking, Desmophen A 160 X is miscible with the Desmodur and Desmophen products listed. However, the combinations must be tested for their compatibility. Desmophen A 160 X can be mixed with Desmodur N 75, N 3390, Z 4470 and L and with Desmophen 670 and 1150. It is also compatible with various types of nitrocellulose chips, certain vinyl copolymers and Soft Resin® P 65. Nevertheless, compatibility testing is always advisable.
Properties / Applications	Desmophen A 160 X is used primarily in combination with Desmodur N 75 or N 3390 to formulate air- and force-drying top coats as well as anti-corrosion coatings and top coats for steel in civil and hydraulic engineering applications. The coatings can be applied by brushing, rolling and airless spraying. They have good weather stability and resistance to water, washing solutions and chemicals. They are stable up to approx. 150 °C. However, yellowing may occur at this temperature.
Storage	When stored in sealed containers at temperatures not exceeding 30 °C, the product will remain stable for at least 6 months.
Safety	**Hazards identification** Flammable. Harmful by inhalation and in contact with skin. Irritating to the skin. Risk of absorption through the skin of xylene and ethylbenzene. **The safety data sheet should be observed.** This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

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