

TYPE

Polyisocyanate cross-linking Acrylic Resin

Hydroxyl content: approx. 2.7 % on solid resin

USES

Primarily in combination with aliphatic polyisocyanates, in the formulation of lightfast and weather-stable two-pack polyurethane coatings.

FORM SUPPLIED

Approx. 63 % in xylene

SPECIFICATION

Non-volatile content (1 g, 1 h, 125 °C):	63 ± 1 %
DIN EN ISO 3251	
Viscosity (23 °C):	4400 ± 1000 mPa·s
DIN EN ISO 3219/A.3	
Acid value, supply form:	4 ± 2 mg KOH/g
DIN EN ISO 2114	
Hydroxyl content, supply form:	1.35 to 1.95 %
DIN 53 240-2	
Hazen colour value:	≤ 50
DIN EN 1557	
Water content:	≤ 0.1 %
DIN 51 777-1	

OTHER DATA*

Equivalent weight, supply form:	approx. 1030 g/eq
Density (20 °C):	approx. 0.98 g/cm ³
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.

PROPERTIES / APPLICATIONS

SETALUX D A 163 X is used primarily in combination with aliphatic polyisocyanates 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.

SOLUBILITY / THINNABILITY

SETALUX D A 163 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

SETALUX D A 163 X can be mixed with Desmodur¹ N 75, N 3390, Z 4470 and L and with SETATHANE® D 1150. However, the combinations must be tested for their compatibility.

It is also compatible with various types of nitrocellulose chips and certain vinyl copolymers. Nevertheless, compatibility testing is always advisable.

STORAGE

When stored in originally sealed containers at temperatures not exceeding 30 °C, the product will remain stable for at least 730 days.

LABELING AND REACH APPLICATIONS

This product data sheet is only valid in conjunction with the latest edition of the corresponding Safety Data Sheet. Any updating of safety-relevant information – in accordance with statutory requirements – will only be reflected in the Safety Data Sheet, copies of which will be revised and distributed. Information relating to the current classification and labeling, applications and processing methods and further data relevant to safety can be found in the currently valid Safety Data Sheet.

¹ Covestro