

TYPE

Polyisocyanate cross-linking Acrylic Resin

Hydroxyl content: approx. 2 % on solid resin

USES

As the polyol component in the formulation of fast-drying two-component polyurethane coatings.

FORM SUPPLIED

Approx. 50 % in butyl acetate/xylene, 1 : 1

SPECIFICATION

Non-volatile content (1 g, 1 h, 105 °C): 50 ± 2 %

DIN EN ISO 3251

Viscosity (23 °C): 4500 ± 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: 0.8 to 1.2 %

DIN 53 240-2

Hazen colour value: ≤ 50

DIN EN 1557

Water content: ≤ 0.1 %

DIN 51 777-1

* Non-volatile content: 1 g resin, 1 ml Disflamoll® TKP (tricresyl phosphate), 1 h, 105 °C

OTHER DATA *

Equivalent weight, supply form: approx. 1700 g/eq

Density (20 °C): approx. 1.01 g/cm³

DIN EN ISO 2811-2

Flash point: approx. 22 °C

DIN EN ISO 1523

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

PROPERTIES / APPLICATIONS

SETALUX D A 450 BA/X is suitable for combination with aliphatic polyisocyanates or to formulate fast-drying two-component polyurethane coatings, e.g. for the industrial furniture finishing. It can also be combined with other SETALUX D A grades to formulate primer surfacers and fast-drying automotive and industrial coatings.

With polyisocyanates like Desmodur HL¹ as the co-reactant, SETALUX D A 450 BA/X yields extremely fast-drying coatings which are soon dry enough to sand and stack.

SOLUBILITY / THINNABILITY

SETALUX D A 450 BA/X can be thinned to a solids content of 20 % using esters, ketones and ether esters. However, the solutions formed must be tested for their storage stability. Toluene and xylene are suitable as diluents.

Only PU grade solvents should be used (< 0.05 % water). They should contain no other reactive impurities.

COMPATIBILITY

SETALUX D A 450 BA/X can be mixed with Desmodur HL*, IL, L, N 75, N 3390 and Z 4470. However, the combinations must be tested for their compatibility.

It is also compatible with certain nitrocellulose chips, various vinyl copolymers and other SETALUX D A grades. SETALUX D A 450 BA/X has only limited compatibility with SETALUX® grades.

* With increasing age of the polyisocyanate, incompatibility may develop between SETALUX D A 450 BA/X and Desmodur HL.

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