

# Nivapol Polem A 1145

## Type

Branched, castor oil-based polyol.

## Form supplied

Solvent-free, liquid.

## Uses

For hard, wear-resistant coatings, membranes, synthetic resin mortars and foam industry.

## Solubility / thinnability

Generally speaking, Nivapol Polem A 1145 has good compatibility with the solvents listed. However, the solutions have to be tested for their storage stability. Nivapol Polem A 1145 can be thinned with esters, ketones, ether esters and aromatic hydrocarbons.

Prolonged storage of a solution with low binder content may result in turbidity and sedimentation. Only PUR grade solvents should be used (< 0.05% water).

The solvent should not contain reactive groups.

## Compatibility

Generally speaking, Nivapol Polem A 1145 is compatible with polyols and MDI and HDI polyisocyanates. Given the many different products on the market, compatibility testing is always advisable.

## Properties / Applications

In combination with other polyols such as Nivapol Polem A 1150, 1155 and crosslinked with MDI, Nivapol Polem A 1145 is suitable for use in the formulation of two-component coatings. These are mainly used on concrete and asphalt floors and steel surfaces.

After crosslinking and curing of Nivapol Polem A 1145 with MDI, the resultant coatings are tough and flexible, hard-wearing and chemical-resistant.

## Packing

Bulk/IBC 1000 kgs./drum 200 kgs.

## Storage

When stored in originally sealed containers the product will remain stable for at least 6 months.

## 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.

## Important Note

Nivapol's products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions

of sale, copies of which may be obtained on request.

## Further Information

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements. Nivapol has technical and practical experiences build over many years. You are welcome to call us for advice and technical assistance.

## Contact details

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## Technical data

Iodine color value	≤ 5 DIN EN 1557
Acid value	≤ 2 mg KOH/g DIN EN ISO 2114
Viscosity at 23 °C	approx. 2900 mPa·s DIN EN ISO 3219/A.3
Hydroxyl content	7.1 ± 0.5% DIN 53 240/2
Water content	≤ 0.1% DIN 51 777-1
Equivalent weight	approx. 245
Density at 20 °C	approx. 1.01 g/ml DIN EN ISO 2811
Flash point	approx. 190°C DIN EN ISO 2719
Renewable	66%
OH-value	230 KOH/g

## Technical data cured material

Data	Methods	Index 100 standard MDI Result
Thickness		2 mm
Shore D Hardness	DIN 53505	70
Tensile Strength	DIN 53504	NA
Elongation at Break	DIN 53504	NA
Crack bridging ability		NA
Temperature resistance		> 90°C
Waterpenetration		Impervious
Chemical resistance		Excellent
Puncture Resistance	ASTM E154	NA
Adhesion to concrete	BS/EN 24614	> 1.5 MPa
Abrasion resistance (Taber)	EN 1504-2	<6000 mg

The above figures are intended as a guide only and should not be used as a basis for specifications

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