

## Technical Data Sheet

**Pearlstick™ 45-80/16** is an elastic, linear, aromatic polyurethane, supplied in form of white spherical granules with a small amount of anti-adherent in the formulation. It has a very low crystallization rate and very low thermoplasticity level.

**Pearlstick™ 45-80/16** is adequate for bonding processes that do not require heat activation (**cold bonding**).

## SPECIFICATION

**Viscosity @ 20°C (Brookfield RVF sp 4, 20 rpm.)\***      **1400–1800 mPa.s**      **MQSA 40A**

\*Solution 15% MEK (MQSA N° 55 A)

Property	Typical Values*	Test Method
Density @ 20°C	1.19 g/cm <sup>3</sup>	ISO 2781
Hydroxyl number	Approx. 0.1%.	MQSA 47A
Hydrolysis resistance	Good	MQSA 34B

\*These are typical values & should not be used for establishing specifications.

## SOLUBILITY

**Pearlstick™ 45-80/16** is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl Formamide, and Tetrahydrofuran (THF).

The solvents and diluents should be water-free (max. 0.1%), so as to avoid subsequent side reactions during crosslinking with isocyanate. It should be dissolved in closed tanks, and the use of a variable speed agitator is advisable. The final viscosity figures can vary, depending on the stirring process and on the solvent/diluents ratios.

## APPLICATIONS

**Pearlstick™ 45-80/16** is used for the production of adhesives for different kinds of materials such as leather, textiles, rubber and a variety of plastics (plasticized PVC, PU elastomers, etc.).

**Pearlstick™ 45-80/16** allows the production of **adhesives with a very long open-time**, which can be used without requiring heat activation.

The addition of **Pearlstick™ 45-80/16** to other different types of Pearlstick™ increases their open-times.

The addition of a polyfunctional isocyanate to improve the heat-resistance and the strength of the joints.

## HEALTH AND SAFETY

A safety data sheet on **Pearlstick™ 45-80/16** is available, with all safety information. When solutions are prepared, the usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, good skin protection and protective goggles.

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**PACKAGING** PE bags of 25 Kg. net. Bags are shipped on pallets of 750 Kg.

**STORAGE**

**Pearlstick™ 45-80/16** must be stored in a cool (15–25°C) and environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.

**For further information refer to Lubrizol Advanced Materials processing guides.**

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