Pearlstick™ 45-90/03 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 low crystallization rate and a low thermoplasticity level.

### SPECIFICATION

**Viscosity @ 20ºC (Brookfield RVF sp 2, 20 rpm.)***

150–450 mPa.s

MQSA 40A

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

### SOLUBILITY

Pearlstick™ 45-90/03 is soluble in Acetone, Methyl Ethyl Ketone (MEK), Cyclohexanone, Dimethyl Formamide, and Tetrahydrofurane (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™ 45-90/03 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™ 45-90/03 enables the production of adhesives with high solids content and low viscosity, which have a very long open-time, which makes them advisable for the shoe industry, as one- or two-component adhesives. The addition of a polyfunctional isocyanate to improves the heat-resistance and the strength of the joints.

### HEALTH AND SAFETY

A safety data sheet on Pearlstick™ 45-90/03 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.

### PACKAGING

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

Pearlstick™ 45-90/03 must be stored in a cool (15–25ºC) 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.