PEARLSTICK™ 45-40/11S is an elastic, linear, aromatic polyurethane with a very high crystallization rate and a medium thermoplasticity level.

**PRODUCT SPECIFICATIONS**

- **Supply form**: White or slightly yellowish pellets without talcum or any other antiadherents in the formulation. (The mentioned colour differences do not affect the quality of the adhesive)

  - **Viscosity @ 20ºC**: 900–1300 mPa.s (MQSA Nº 40 A)
    - (Brookfield RVF sp.2, 20 rpm solution at 15% in MEK)

**PRODUCT CHARACTERISTICS**

- **Density @ 20ºC**: Approx. 1.19 g/cm³
- **Hydroxyl number**: Approx. 0.1%
- **Hydrolysis Resistance**: Good
- **Minimum Activation Temperature**: Approx. 45ºC

**SOLUBILITY**

PEARLSTICK™ 45-40/11S is soluble in acetone, methyl ethyl ketone (MEK), cyclohexanone, dimethyl formamide, tetrahydrofuran (THF). Diluting solvents such as toluene, ethyl acetate, can be added. The solvents and diluents should be water-free (max. 0.1%), so as to avoid subsequent side reactions during crosslinking with isocyanates.

**SOLUTIONS**

PEARLSTICK™ 45-40/11S 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.

Please see our technical sheet on “Process for obtaining solutions based on PEARLSTICK™”.

**APPLICATIONS**

PEARLSTICK™ 45-40/11S is used for the production of adhesives for bonding plasticized PVC to plasticized PVC, leather/rubber and other materials commonly used in the shoe industry. The addition of a polyfunctional isocyanate improves the heat-resistance and the strength of the joints.
HEALTH AND SAFETY
A safety data sheet on PEARLSTICK™ 45-40/11S 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 containing 25 Kgs. n.w.
Pallets of 750 Kgs. n.w.

STORAGE
PEARLSTICK™ 45-40/11S 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.