

Abstract

A liquid butyl benzene polymer, a preparation method for same and an application of same, as well as a composition, a polymer coating, an adhesive and a cross-linking agent containing the same. When the total weight of the liquid butyl benzene polymer is taken as a reference, in the liquid butyl benzene polymer, the content of a styrene structural unit is 15-30 wt%, the content of a butadiene structural unit is 70-85 wt%, and the content of a 1,2-structural unit is 60-80 wt%; when the total weight of the 1,2-structural unit in the liquid butyl benzene polymer is taken as a reference, the content of a cyclized 1,2-structural unit is 20-60 wt%. A coating formed by the liquid butyl benzene polymer not only has high peel strength for a substrate, but also has improved thermal expansion performance.