

Abstract

Disclosed are a butyl rubber reactive bonding layer for a pre-applied reactive-bonding waterproofing coiled material, a preparation method therefor, and a pre-applied reactive-bonding waterproofing coiled material, relating to the technical field of high-molecular pre-applied materials. The butyl rubber reactive bonding layer is prepared mainly from the following raw materials: 100 parts of a raw rubber, 9.5-15.5 parts of a linear tackifier containing a terminal hydroxyl structure and 12.5-19.5 parts of an active filler. The active filler includes active silicon dioxide and aluminium oxide. The present invention alleviates the disadvantages that a bonding layer of a waterproofing coiled material in the prior art is liable to flow, deform and wrinkle when being heated, is brittle at a low temperature, is free of sticking feet only if the rubber layer has a single anti-sticking layer or insulation layer, and is poor in stripping strength with post-poured concrete. The butyl rubber reactive bonding layer of the present invention is capable of forming a permanent chemical bond with concrete, ensuring that a real skin-type water-proofing structure is formed between the pre-paved high-molecular waterproofing coiled material and the concrete, and the bonding layer is free of sticking feet and allows people to walk thereon without coverage by sand and coating layers. In addition, the reactive bonding layer has good low temperature resistance and thermal stability.