News Release

JMTC

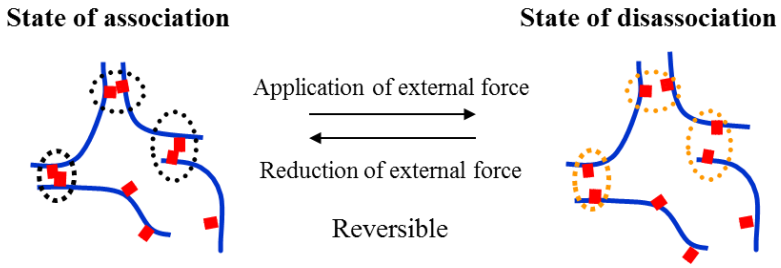
March 1, 2017

Japan Material Technologies Corporation and Mitsui Chemicals Sign a Patent Licensing Agreement for Water- Soluble Polyurethane

Japan Material Technologies Corporation (JMTC; Head office: Chuo-ku, Tokyo; CEO: Koyu Urata) and Mitsui Chemicals, Inc. (MCI; Head office: Minato-ku, Tokyo; President & CEO: Tsutomu Tannowa) have reached an agreement and signed a Patent licensing contract under which JMTC will be licensed from MCI the patent rights for MCI's Water- Soluble Polyurethane (the polymer).

The polymer has a unique molecular structure, with a hydrophilic principal chain as well as some hydrophobic molecules. Solutions in which the polymer is dissolved in water or certain other organic solvents display high viscosity from the association of the hydrophobic molecules, but also display thixotropy, with the molecular association broken down and the solution becoming less viscous when external force is applied. The polymer is also a non-ionic material, meaning that it is relatively unaffected by salts and other types of ions in aqueous solutions, making it possible to increase the viscosity while maintaining stability even in high pH ranges.

<Functional expression of the polymer>



The viscosity of inorganic materials can be controlled with the addition of the polymer, and with this ability to control the viscosity, the polymer shows promise for uses as a viscosity modifier for electronics, construction, paints, and other areas.

JMTC intends to use the license of the patent to commercialize the polymer.

JMTC is a startup company specializing in the field of materials chemistry. The company is focused on the use of licensing agreements and carve-outs to commercialize innovative technology developed mainly by Japanese corporations, as well as universities, research institutions, and other organizations. The company is committed to making a contribution towards the creation of innovation by promoting commercialization of technology that lies dormant within other companies.