

News Release

November 26, 2020 ADEKA Corporation

ADEKA REASOAP Series of Reactive Emulsifiers Win Approval from U.S. Food and Drug Administration (FDA)

ADEKA Corporation (President and Chief Executive Officer: Hidetaka Shirozume) announces that *the ADEKA REASOAP series*, which became the world's first reactive emulsifiers to be approved by FDA in May 2019, were approved by FDA in Sep. 2020 for the increase of their content in adhesive resins to a maximum of 3% by weight (dry).

This paved the way for increasing the reactive emulsifier content in adhesive resins from the 1% first approved to up to 3%, thereby improving polymerization stability and the functionality of the resins.

The ADEKA REASOAP series of reactive emulsifiers are materials that increase the adhesion and water resistance of coatings and adhesives used in food package films. In addition, they provide adhesives with the excellent peelability necessary for recycling and significantly limits the elution of resins to foods and other materials in comparison with non-reactive emulsifiers. This means that its is friendly to people and to the environment. The use of reactive emulsifiers prevents the decline of adhesion due to wet environments and dew condensation and the whitening of labels. This helps avoid a deterioration in visual appearance. The series will produce significant effects when used in a wide range of food packages for chilled and frozen foods and snacks and in clear labels for transparent bottles, for which needs are recently increasing in the U.S. and in Europe.

The enhanced removability of adhesives helps ensure that labels are completely removed from food packages to enable higher-quality, higher-efficiency recycling than before. In collaboration with ADEKA USA CORP., We will step up its proposals for the application of its products in the Japanese and U.S. markets to increase sales.

Principal applications (approved products) Adhesives for food package materials and labels.



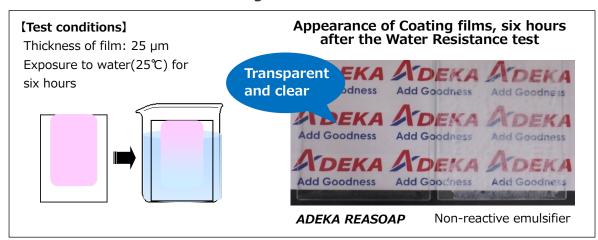


<continued on next page>

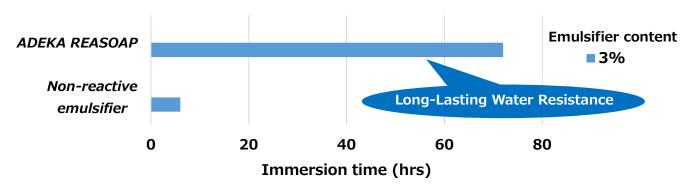


News Release

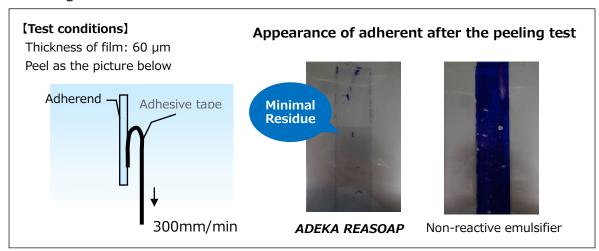
Water resistance test for coating film



■ *ADEKA REASOAP*'s Improvement of Water Resistance of Optimal 3% Dosage



■ Peeling Test of Adhesive with *ADEKA REASOAP*



■ Contacts

ADEKA Corporation

Administration group , Legal Affairs & Publicity Department

Tel: +81-3-4455-2803