

AQUEOUS POLYURETHANE DISPERSIONS

Areas of Application

Film forming aqueous polyurethane dispersions and polymer materials may be used as:
 protective immunostimulatory coating for seeds and plants in agriculture;
 antitranspirants for reducing water scarcity and optimization of the production process of crops in drought conditions;
 binders for biologically active substances granulation

Specification

The dispersions are stable during long-term storage and water dilution (1:100); form transparent strong elastic film.

Tensile strength, MPa	10–50
Relative elongation, %	150–1400



Protective coating of wheat seeds

Advantages

As compared with counterparts, the proposed dispersions are cheaper due to replacement of raw materials from petroleum derivatives by natural renewable ones. Use variances can reduce water consumption under irrigated agriculture, improve the environmental quality of agricultural products and reduce the environmental burden on the environment



Humus granules

Stage of Development. Suggestions for Commercialization

IRL6, TRL6
 Small batches of film-forming aqueous dispersions can be manufactured and delivered upon request

IPR Protection
 IPR2, IPR3

Contact Information

Yuri V. Savelyev, Institute of Macromolecular Chemistry of the NAS of Ukraine;
 +38 044 559 73 95, e-mail: yuri2savelyev@gmail.com