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Res. Agr. Eng.

Müller M., Valášek P.:

Degradation medium of agrocomplex –

adhesive bonded joints interaction

Res. Agr. Eng., 58 (2012): 83-91

Research of degradation medium occurring in agrocomplex at the current interaction with bonded joints strength and lifetime is desired owing to the possibilities of bonding applications in this dynamically developing field. The bonding technology is used in construction of machines, lines and devices of agriculture, forestry and food industry. Among the perspectives of bonding technologies the adhesive bonding can be considered thanks to its predominant pluses. At the bonding technology or more precisely adhesive bonding technology application the limits must be characterized, which occur in the process of application in the concrete medium. On the basis of characteristics and analyses the countermeasures eliminating the negative factors can be taken. Published results set themselves the goal to know degradation processes taking place in bonded joints contemporarily with taking account of adhesive/adherend interaction with

accent on application in agriculture.
Experimentally found results confirm the presumption of a significant portion of the adhesive layer on the adhesive bond strength decrease in the practice due to the degradation processes.

Keywords:

liquid contaminants; bonding method; cyclic degradation; bond strength; bond lifetime

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