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Res. Agr. Eng.

Müller M., Valášek P.:

Environmental degradation aspects

Influencing coach-working one-component epoxy adhesives

Res. Agr. Eng., 60 (2014): 37-43

Degradation processes act on adhesive bonds behaviour in a negative way. The aim of experiments is to set the influence of liquid contaminants on strength changes of the adhesive bonds created with the adhesive used in the area of a coach-work construction. It is presumed according to a hypothesis that the adhesives applied in the construction of traffic and electricity means are resisting to liquid contaminants. The rain water, 33% solution of the rain-water and halite and the oil were used as the degradation mediums/environments. On the basis of evaluated experiments it can be said that resultant strength of the adhesive bonds decreases in the course of time at simultaneous affection of the environment. The measure of the strength decrease depends on specific conditions of the environment; however, it can be as much as 55%. The significant contaminant is the solution of the water and halite.

Keywords:

adhesive bond strength; corrosion; diffusion; failure area; liquid contaminants

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