

Laboratory Reference: DUD11B-0191-4

Client: Otech

Date: 9 June 2011.

Material: Aggbind 60 and Aggbind 75

Subject: Investigation of fuming potential and low temperature stability.

BACKGROUND

Historically some adhesion agents have demonstrated fuming when used in the field causing discomfort to the crews and passing public.

It is therefore important, for health and safety, to select an agent which has minimal or zero fuming.

Another issue has been low temperature stability at low temperatures; some agents have solidified at temperatures below 5°C.

METHODOLOGY

Aggbind 60 and 75 was added to separate samples of 180/200, at 1.0pph by volume, at 140°C and the level of fuming noted. Sample temperature was raised to 160°C and the degree of fuming again noted.

Samples of Aggbind 60 and 75 were placed in the refrigerator at 4°C for 24 hours and the increase in viscosity visually noted.

RESULTS

Negligible fuming was observed with both Aggbind 60 and 75 at both 140°C and 160°C.

At 4°C both agents clouded but remained liquid, Aggbind 75 visually had the lower viscosity.

CONCLUSIONS

Both Aggbind 60 and Aggbind 75 demonstrate negligible fuming and should present no related health hazards in the field,

Low temperature stability appears to be good.

Vialit test show that Aggbind 75 is more efficient than Aggbind 60.

Tony Horsfall.

