

INTERCOL AND DS SMITH APPROACHING 'ZERO DEFECTS' WITH ADHESIVE PILOT

# PERFECT GLUING

**READ:**  
5 minutes  
**WHO WILL SPEAK:**  
Henry Mensen  
of Intercol  
and Robert Smith  
and Bjorn Reudink  
of DS Smith Eerbeek

**WHY SHOULD YOU READ THIS?**  
The expertise of an adhesive manufacturer results in perfectly glued boxes.

By means of new glue and improved settings, corrugated cardboard -manufacturer DS Smith in Eerbeek and adhesive supplier Intercol approach zero defects on the production line for corrugated cardboard packaging. The results were reached after six months of testing. The new approach must ultimately lead to increased efficiency among DS Smith's end customers in mainly the food processing industry.

**The far-reaching automation process at customers' demands good quality boxes'**

says Robert Smith from the DS Smith Business Support department in Eerbeek. High speed box erectors are more and more sensitive to failures. We supply millions of boxes per quarter to some customers. One incorrectly glued box can paralyse a production line. That's why it is very important that every box is perfectly produced and has an optimal bonding. In our industry, an integral quality approach is indispensable and bonding is an important part of this process'.

resulting in empty supermarket shelves. This project is an important step in our zero defects approach and a good addition to our previous invested process control parts. says Bjorn Reudink, production manager at DS Smith Eerbeek.

**Significantly fewer microstops**

By means of a pilot on one of the inliners DS Smith compared the standard adhesive used with Intercol's new Superjet 900 adhesive. The advantages

on the adhesive behaviour and the smaller number of micro stops were the decisive factors. The staff's doubts about the new adhesive were quickly dispelled. Subsequently, several machine modifications were made to further increase the reliability and work was done on an adhesive pressure curve that adapts to the machine speed.

**Linear glue curve**

'We have introduced an adhesive that is optimised for this high accurate adhesive applicators and we have set a linear pressure adhesive curve, which is linked to the machine speed,' says Henry Mensen, Technical Sales Manager at Intercol. That ensures that the adhesive pressure always matches the speed of the processing machine, regardless of whether it is running slowly or at full speed. Such an adhesive curve creates calm for the operator and reduces the risk of errors. An additional advantage is that the Superjet 900 adhesive contains a food-safe detection pigment, which can be applied to both white and brown cardboard'.

**Higher standards**

The cooperation is part of DS Smith's process of raising production standards worldwide, both in its own production and at its customers' sites. In the PackRight Centres we work together with customers on designs and pack-aging. Solutions that not only ensure an efficient use of resources the packing process, but effective in other link Solutions that not only ensure an efficient use of resources the packing process, but effective in other links of the supply chain.

[intercol.eu](http://intercol.eu)  
[dssmith.com](http://dssmith.com)

	Food safe	Detectable
White board		
White glue	✓	✗
White board with optical brighteners		
White adhesive with Standard UV pigment	✗	✗
White board with optical brighteners	✓	✓
Food safe detectable superjet 900 adhesive	✓	✓

The packaging industry is constantly faced with required improvements in the areas of effectiveness, food safety and the environment. Adhesives such as the Superjet 900 play a major role in this. This series of adhesives is on the laboratory of Intercol extensively tested on identical adhesive equipment such as those on folding gluers. By means of lab tests and practical results there is one optimal result achieved in the field of adhesive splashes, machine starts and-stops, consistent adhesive job and a high wettack. Also satisfies the glue to regulation EC/1935/2004, GMP, REACH and PIM. An additional advantage of the new Superjet 900 series adhesive is that it is

detectable on white, brown and recycled cardboard, so that detection systems can see the glue. Optical brighteners in cardboard can cause problems with standard detection pigments,' explains Mensen. Our glue contains a food-safe detection pigment. This is unique, because many adhesive manufacturers usually exclude the UV pigment from the food safety declaration'. Intercol offers local support in the implementation of adhesives in Europe. From Hungary, Italy, Spain to England and Norway are already customers who's efficiency have increased by the using the perfect adhesive in combination with the right settings.

*"An integral quality approach is indispensable"*

**Optical Glue control**

In the packaging industry, glue on the inside or outside of the box causes the so-called in- and out- side-glue. These are boxes that do not open in case erectors or stick together on it's stack. This is at the expense of production speed and leads to downtime. Goods cannot be delivered on time,

**BRC – Hot melt Packaging adhesives**

Intercol offers a wide range of adhesives. Both waterborne adhesives and hotmelts for various industries. An important market is the food packaging industry. Intercol, in cooperation with the Beardow Adams factory for hotmelts, has realised a production location according to BRC standard. This enables the adhesive supplier to supply packaging hotmelts under BRC certificate. This certification is increasingly required by the market.



Team DS Smith and Team Intercol in front of an inliner folder gluer