



Labelling



Packaging



Woodworking



Product assembly



Bookbinding



Converting



Unique in hot melts

Information from **BeardowAdams**
Unique in hot melts

Bonding pharma and health care packs with innovative hot melts

Innovation in packaging doesn't need to be limited to materials, print and pack design – the adhesive also has a key part to play.

And, if you ask 'Can an adhesive be innovative?', we say 'Yes' as our BAMFutura range won the Queen's Award for Innovation – and the Queen's Award is the UK's most prestigious prize.

BAMFutura is innovative because it was the first hot melt to be fume free, odourless and clean running while also offering high quality bond strengths with high fibre tear – critical for sealing and tamper proofing cartons in the pharmaceutical and health care markets.

Tamper evident, clean running

BAMFutura can provide consistent high quality bonds on the complex packaging formats and materials used in the pharma/health care industry.

It is ideal for packs that have to rely on tear resistance on varnished/coated boards, and other materials, to meet high security, counterfeiting and tamper evident regulations.

The manufacturing environment is also cleaner. Gone are the days when application machinery and packaging were streaked with adhesive overspill, splashing or stringing because BAMFutura's non-stringing formulation prevents this.

No odour, no tainting

Given the tightness of manufacturing practice for pharmaceutical and

health care product manufacturers – and the requirements for critical information not to be obscured – the clean running aspect of BAMFutura could well justify using the adhesive on its own.

Moreover, products and packaging are no longer tainted by the odour of the hot melt. The purity of its raw materials also makes it suitable for direct food contact.

Stock reduction

The other major benefit of BAMFutura is its versatility – laboratory tests have shown that 80 percent of all boards can be bonded with BAMFutura 1 across all geographical and environmental conditions.

This has enabled users to reduce adhesive stocks to one product, cut costs and increase productivity. We currently supply more than a dozen major pharmaceutical companies with BAMFutura and there is a common feeling of seeing their total adhesive costs reduced significantly.

An inherent part of the adhesive's formulation is that it is also fast to melt down and has flexible open times but a high speed of set – it can produce secure bonds on lines running at 500 cartons/minute.

For the other 20 percent of general packaging applications – as well as many specialist uses – there are occasions when another hot melt from our range is better to use, as highlighted in the case studies overleaf.

BAMFutura comprises a range of hot melts for general and specialist uses, including adhesives for bonding 'difficult' boards which may be subjected to extremes of temperature.

All are light coloured and share the BAMFutura characteristics of being odour and fume free with especially good thermal stability – good thermal stability prevents oxidation of the adhesives, charring in the tank and adhesive or product contamination, a notable problem with some standard hot melts.



Machines are able to run cleanly and efficiently, hot melt tanks can be kept in good condition and blockages in application nozzles are avoided, all leading to continuous, trouble free running.



Creating advantage



Hot melts in action bonding pharma and health care packs

Case study one – USA

Application Carton sealing shampoo and conditioner products with BAMFutura 1 to overcome pop-open problems.

After having long term pop-open problems in the field with several competitor hot melts, this customer trialled BAMFutura 1 to see if it could meet its requirement of withstanding heat ageing testing of 55 °C for over a week, the hot melt it was using at the time failing within three days.

BAMFutura 1 withstood the test for 21 days and passed all line trials – it has now been in use for nearly a year without any issues.

It was able to withstand the humid and hot – over 32 °C for 30 days – US summer, a good indication that the customer will not have any pop-open issues with BAMFutura 1.

Case study two – Turkey

Application Bonding carton board with BAMFutura 5.

One of Turkey's biggest pharmaceutical companies chose BAMFutura 5 to seal individual cartons of paracetamol.

The company has seven

production lines. It applies the hot melt by jet nozzle at 250 to 500 boxes/min, depending on line set up.

BAMFutura was chosen because it is white, does not smell, fume or taint and is very clean running. It also

- Allows clean cut off from the nozzle.
- Precise application, even on high speed machines.

Case study three – Asia Pacific

Application Creating a resealable bond on a carton board with PRESSEN 1527 replacing adhesive tape.

This company manufactures prescription drugs that are held in a special patient compliant cardboard wallet featuring an open and re-seal device.

It required a seal that could be made, broken and remade numerous times without transfer of the adhesive – or the wallets opening during production.

After trialling a number of products to replace the adhesive tape initially used, PRESSEN 1527 was chosen – it is very cohesive and remains on one surface only, allowing the wallet to be opened and closed without any adhesive transfer.

Other benefits of using PRESSEN 1527 are:

- Water white colour – will not discolour board.
- Pressure sensitive adhesive – has infinite open time.
- Low peel strength for easy opening and resealing.

The packaging operation takes place in a clean room. The line speed is typically 30 wallets/ minute with a compression time of 1.5 to two seconds.

Case study four – UK

Application Using BAM 1279 hot melt as a 'universal' adhesive for carton sealing.

Metallised polyester coated board ('Metpol') is now a popular alternative to standard carton board for designers looking for ever more sophisticated packs.

To ease production and reduce costs, this customer wanted one hot melt to bond 'Metpol' and a standard board.

BAM 1279 was selected – it works well on 'Metpol' under normal ambient conditions and is clean running. It has other advantages too:

- Bonds plastic and plastic coated boards.
- Very high molten tack – makes a tough, tamper-evident bond.