

# Unique in hot melts

Information from **BeardowAdams**  
Unique in hot melts

## No-taint hot melt adhesives for confectionery packaging

**Confectionery and food** producers are understandably concerned about tainting food stuffs – a problem often associated with the traditional smell of hot melt adhesives.

By using high quality raw materials, our BAMFutura range of hot melts eliminates odours and fumes in the production process and thereby prevents tainting.

The adhesives can be used to bond packs, cartons, cases and roll wrapped sweets – for both paper over foil wraps and plastic film – as highlighted in case studies overleaf.

### Robinson taint test = zero

By switching to BAMFutura, companies using the EN 1230-2:2001 method for testing the organoleptic properties of packaging materials (the ‘Robinson taint test’) should find that the intensity of the odour or off-flavour is rated at the lowest score – zero.

### Quality bonds

BAMFutura was the first hot melt to be fume free, odourless and clean running while also offering high quality bond strengths with high fibre tear.

They can provide consistent high quality bonds no matter how simple or complex the packaging format or ‘difficult’ the substrate.

In addition, the purity of our raw materials also qualifies them for food and medical packaging.

### Clean running

BAMFutura hot melts remain clear in the hot melt tank, as shown right, and have a high resistance to oxidation – oxidation causes a build up of char in the hot melt tank and viscosity changes which will block application nozzles, create unsightly ‘cobwebbing’ of the hot melt and unnecessary production stoppages.

The refined nature of BAMFutura eliminates oxidation, so leading to continuous, trouble free production and a cleaner manufacturing environment – gone are the days when application machinery and packaging were streaked with adhesive overspill, splashing or stringing: BAMFutura’s non-stringing formulation prevents this.

### 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.**

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



Beardow Adams’ BAMFutura +Plus 501 is used by a major confectionery manufacturer in the USA on a paper-over-foil wrap mint and menthol sweet – a flavour combination notoriously difficult to bond due to the highly volatile essential oils used – see case study five overleaf.



Creating advantage



# Hot melt adhesives in action on confectionery packaging

## Case study one – Asia Pacific and UK

**Application** Sealing cartons with BAMFutura 1.

BAMFutura 1, perhaps the most versatile BAMFutura hot melt, is used in the Asia Pacific region by a multi-national confectionery giant at one of its plants for sealing the cartons of over a dozen different products.

It is also used in the UK by another multi-national on individual cartons of medicated sweets.

### BAMFutura 1 facts

- Universal hot melt.
- Tough adhesive for heavy duty case sealing and high speed carton erecting.
- Excellent adhesion to dense, recycled or heavily sized board.
- Temperature range -30°C to +90°C.

## Case study two – UK

**Application** Bonding plastic wrappers on sweets with BAMFutura 3.

A global confectionery company reports that it found BAMFutura 3 gave 'superb performance' on the plastic wraps for rolls of jelly and pastille sweets.

### BAMFutura 3 facts

- Deep freeze adhesive suitable for roll wrap and plastic films.
- Flexible down to -40°C.
- Also gives good adhesion on a wide range of deep freeze boards.

## Case study three – Europe

**Application** High speed packaging of chocolate with BAMFutura 5.

Because of worries about the potential tainting of chocolate and dairy based food stuffs, a major European food and confectionery business approved

BAMFutura 5 for the high speed packaging of its chocolates.

### BAMFutura 5 facts

- Low viscosity, fast setting hot melt.
- Clean cut off from the nozzle and precise application.
- Can be used on high speed packaging lines.

## Case study four – Columbia

**Application** Bonding carton board wrapped chocolate and point of sale cartons with BAMFutura 6.

A maker of wrapped chocolate bars is using BAMFutura 6 to bond the carton board wraps of individual bars. It is also used on a 'difficult' board for its point of sale cartons, which require a high adhesion hot melt.

### BAMFutura 6 facts

- Will bond some of the most difficult low surface energy materials.
- Flexible down to -40°C.
- Gives a deep fibre tearing bond on most grease resistant or varnished boards.

## Case study five – USA

**Application** Paper-over-foil wrapped mints on an Autowrappers (Bradman Lake) unit with BAMFutura+Plus 501.

A major confectionery producer is using BAMFutura+Plus 501 on an Autowrappers machine for a paper-over-foil wrap on a mint and menthol sweet – a flavour combination notoriously difficult to bond due to the highly volatile essential oils used. See photograph overleaf.

### BAMFutura+Plus 501 facts

- Exceptional bonding of difficult surfaces.
- Resistant to oils such as bergamot and peppermint.



**Top** Beardow Adams' BAMFutura hot melt adhesives will not taint sensitive foodstuffs such as chocolate – see case study three.

**Bottom** BAMFutura is an extremely clean running hot melt – as shown in this unretouched photograph of the adhesive running at 160°C in a melt tank. The adhesives can be used for all types of packaging – pack, carton, cases and roll wrapping.