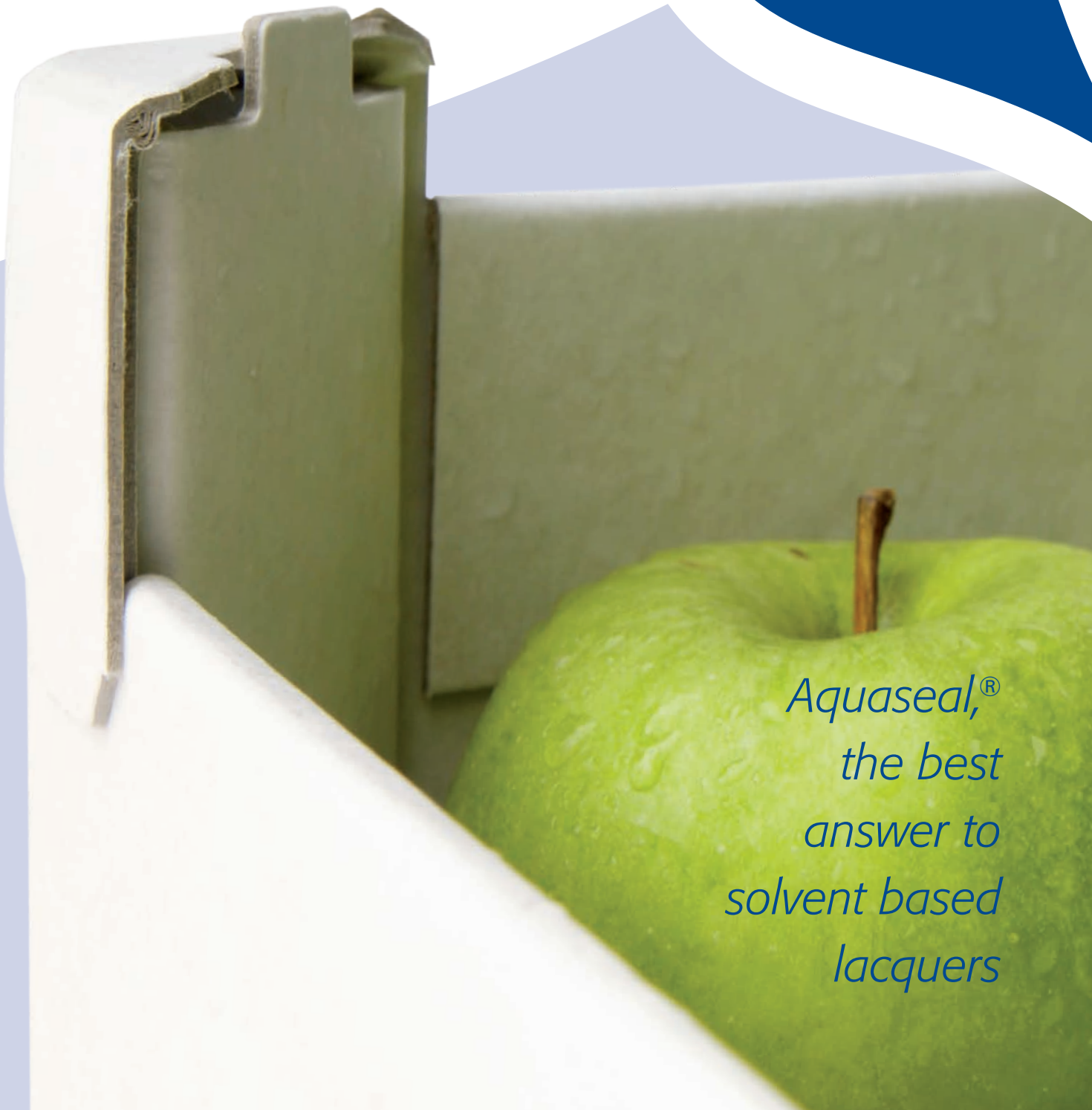




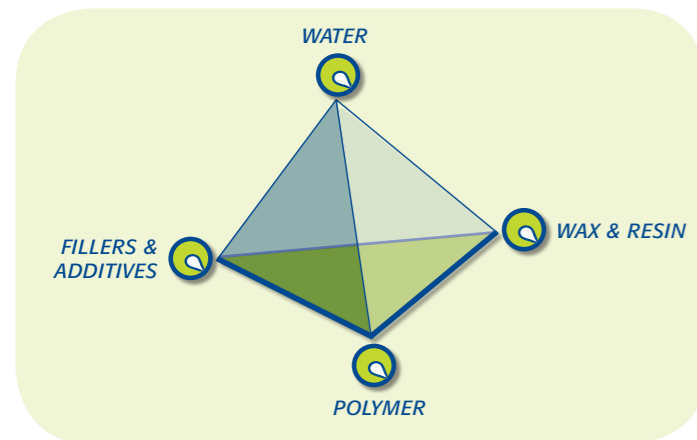
Waterborne heatseal & barrier coatings



*Aquaseal,<sup>®</sup>  
the best  
answer to  
solvent based  
lacquers*

# Aquaseal® *innovative waterborne heat seal & barrier dispersions*

Paramelt has established the world's first commercial capability for the mechanical dispersion of high molecular weight, thermoplastic, polyolefin polymers, such as PE, PP, EAA, EVA and ionomers.



Until now access to the true capabilities of these materials has only been possible by extrusion. Where application via printing or coating techniques were required the formulator had to compromise on polymer selection or was limited to high melt index (waxy) materials whose performance was substantially below that of the extrusion grades.

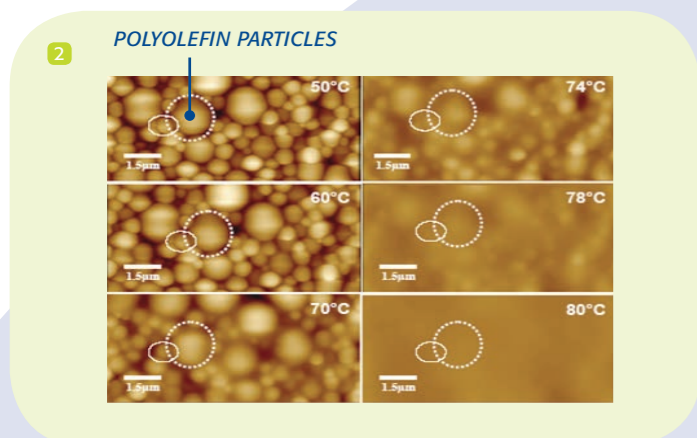
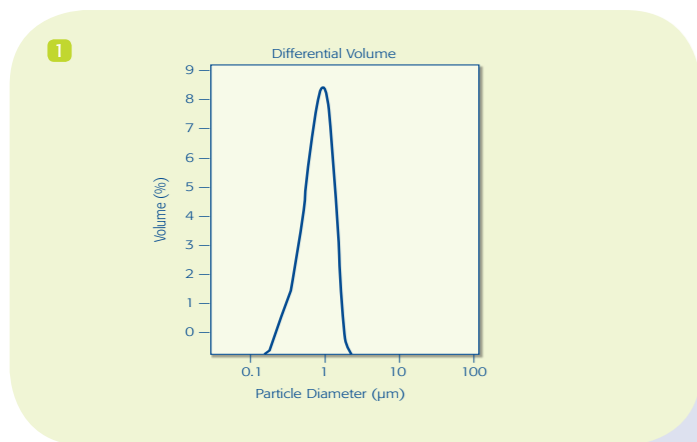
The introduction of this new technology opens up the full formulatory envelope, allowing the coating designer to completely optimise target properties, without the need to compromise for dispersibility.

## The essence

- Unique aqueous high shear dispersion technology
- Enables the production of high molecular weight, thermoplastic polymer dispersions in water
- Commercial, extrudable polymers can now be applied using traditional printing and coating techniques
- Revolutionary potential for innovation in coatings, sealants & adhesive layers on a large variety of substrates.
- Water based, safe and reliable technology
- Gives the converter access to new markets and applications
- Allows the designer to create totally new packaging concepts

1 Typical particle size distribution of an aqueous polyolefin dispersions

2 Film forming process at increasing temperatures (Dow Chemical)



## Target markets

With the broad scope in material selection the possibilities for Aquaseal® products are endless. Some typical application examples in packaging converting are:

### Paper & board

- Oil and grease protection
- Moisture barrier
- Heat seal (peel and fibre tear)
  - Coating to coating
  - A/B seal to paper, film and foil
  - In mould labelling
  - Blister & skin packaging
  - Coffee labelling
  - Medical

### Foil

- Extrusion lamination primer
- Heat sealing
- Lidding sealants for a wide range of substrates

### Film

- Primer-less coating for direct application on plastics
- Heat sealing
  - Full coverage heat seal for horizontal and vertical applications
  - Pattern applied sealants for cost reduction
  - A/B sealability in laminate simplification

## A new technology\* with superior end-use performance and formulation flexibility

- Water resistance
- Non-allergenic
- Oil & grease resistance
- Recyclable
- Heat sealability
- High filler loading
- Low temperature flexibility
- Flexibility
- Range of hardness
- Toughness
- Range of melting points
- High coefficient of friction
- Elasticity
- Direct food contact
- Adhesion to both polar and non-polar substrates





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Founded in 1898, Paramelt has over 120 years of experience and today is a global producer of wax blends, adhesives and specialty dispersions. Operating from production sites in The Netherlands, United Kingdom, the USA and China we work together in a team of about 500 employees around the world. Paramelt provide an extensive product offering for the converting industry. The Paramelt range encompasses a comprehensive suite of hot melts, water and wax-based adhesives, coating wax blends and water-borne heat seal and barrier coatings for paper & board, film and foil.



experience. performance.