



packaging | flexible packaging

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# Aquaseal™ packaging coatings

Paper, film and foil  
solutions

## Formulating solutions. Together.

Paramelt's unique Aquaseal™ product platform provides high-solids dispersions of polyolefin polymers, such as PE, PP, EAA, EVA and ionomers. This proven technology allows application of commercial, extrusion-grade polymers using traditional printing and coating techniques

**The essence**

- Advanced, high-shear, aqueous dispersion technology
- Yields water-based, high molecular weight, thermoplastic polymer dispersions
- Allows co-dispersion of complex polymer blends with waxes, resins and additives
- Formulation potential to optimize end-use and application properties such as rheology, COF, matting etc.
- Water-based, solvent-free, safe and environmental-friendly technology
- Unique potential for innovation in coatings, sealants & adhesive layers on a large variety of substrates
- Provides flexible packaging converters access to new markets and applications
- Allows the packaging designer to reduce material use and create totally new packaging concepts
- Papers coated with Aquaseal™ can be repulpable through appropriate existing processes

**An innovative technology\* with superior end-use performance and formulation flexibility**

- Moisture vapour barrier
- Water resistance
- Oil & grease resistance
- Compatible with recycling processes
- Heat-sealable
- Low temperature flexibility
- Direct food contact compliance
- Non-allergenic
- Range of melting points
- Controlled coefficient of friction
- Coating transparency
- Potential for high filler loading

\* Enabled by Dow Bluewave Technology

## Target markets

Given the wide range of material types within the Aquaseal™ portfolio, the applications for these dispersions are extremely broad. Some typical examples in packaging converting are:

**Paper & board**

- Moisture (vapour) barrier
- Water, Oil and grease barrier
- Heat seal (peel and fibre tear)
  - Coating to coating (A/A)
  - A/B seal to paper, film and foil

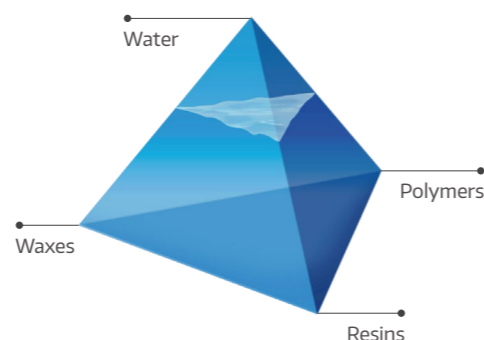
**Aluminium foil**

- Extrusion lamination primer
- Low temperature heat sealing
- Lidding sealants for a wide range of substrates
- Chemical resistance

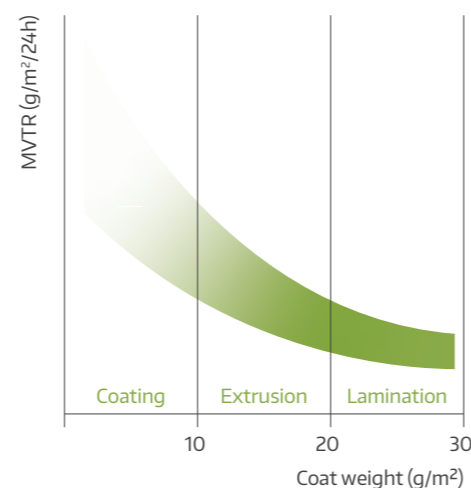
**Flexible packaging film**

- Low temperature heat seal LTSC (e.g. BOPP)
- Full coverage heat seal for horizontal and vertical FFS applications
- Pattern applied sealants for optimized material use
- Replacement of extrusion coating or film lamination for A/B sealing complexes
- In-mould labelling & lidding sealants
- Metallisation primer
- Film-to-film lamination

**Potential formulation space**



**Relative barrier performance**



	Product name	Solids [%]	Viscosity [mPas]	MST [°C]	Food contact	Dispersion type	Base chemistry	Typical application area
Paper	<b>Aquaseal X 2155</b>	45	600	90	y	unformulated	acid copolymer	Medium Temperature Seal coating with very good A-A seal strength
	<b>Aquaseal 2045</b>	43	750	80	y	unformulated	acid copolymer	Low Temperature Seal coating with very good A-A seal strength
	<b>Aquaseal X 2200</b>	50	250	90	y	unformulated	TPE polyolefin	heat seal and barrier (MVTR, O&G) coatings on paper. Also sealing to PE and PP
	<b>Aquaseal X 2366</b>	47	325	90	y	formulated AQ X 2155	acid copolymer	heat seal and barrier coatings on paper. Very good moisture vapour barrier
	<b>Aquaseal X 2401</b>	42	300	90	y	unformulated	LDPE	heat seal and barrier (MVTR, O&G) coatings on paper
	<b>Aquaseal X 2404</b>	42	300	90	y	unformulated	m-VLDPE	heat seal and barrier (MVTR, O&G) coatings on paper
	<b>Aquaseal X 2406</b>	42	350	80	y	unformulated	EVA	heat seal coatings on paper
	<b>Aquaseal X 2330</b>	43	300	90	y	formulated AQ X 2155	Acid copolymer formulated for low CoF	heat seal coating on paper for high speed packaging processes
Foil & film	<b>Aquaseal 1307</b>	25	200	70	y	unformulated	acid copolymer	low Temperature Seal coating as glass rim coating to support alu-foil lidding
	<b>Aquaseal 2077</b>	33	100	70	y	unformulated	acid copolymer	low Temperature Seal coating for film like (B)OPP
	<b>Aquaseal X 2339</b>	31	100	70	y	formulated AQ 2077	acid copolymer	low Temperature Seal coating for lidding on glass containers
	<b>Aquaseal 2045</b>	43	750	80	y	unformulated	acid copolymer	low Temperature Seal coating for foil (e.g. processed cheese, chocolate wrapper) and film like (B)OPP
	<b>Aquaseal X 2261</b>	43	500	80	y	formulated AQ 2045	acid copolymer formulated for low CoF	low Temperature Seal coating for foil (e.g. processed cheese, chocolate wrapper)
	<b>Aquaseal X 2311</b>	30	100	80	y	formulated AQ 2045	acid copolymer formulated for low CoF	Low Temperature Seal coating for Alu foil (e.g. processed cheese, chocolate wrapper)
	<b>Aquaseal X 2393</b>	30	140	90	y	unformulated	acid copolymer	Medium Temperature Seal coating for OPP-film and foil
(flexible & rigid) Plastic packaging	<b>Aquaseal X 2088</b>	55	300	85	y	unformulated	PP co-polymer	heat seal coating for sealing against PE, PP and OPP
	<b>Aquaseal X 2200</b>	50	250	90	y	unformulated	TPE polyolefin	heat seal and barrier (MVTR, O&G) coatings on paper. Also sealing to PE and PP
	<b>Aquaseal X 2428</b>	50	150	70	n	unformulated	"hotmelt" dispersion	heat seal coating for PS, PP, PET, PE, PVC, NC
	<b>Aquaseal X 2296</b>	36	80	90	Y	formulated	acrylic formulated for low CoF	heat sealable OPV for high speed roll-wrap applications

# We are Paramelt

When your products depend on the consistent performance of waxes, adhesives, and coatings, reliability becomes essential. Today's manufacturing challenges, from supply chain volatility to increasing regulatory and sustainability demands, require partners who respond with certainty and expertise. Many of the world's most trusted brands rely on Paramelt for dependable quality, secure supply, and deep formulation knowledge in demanding applications. We collaborate closely, support your goals, and help you move forward.

We listen, adapt and deliver!

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