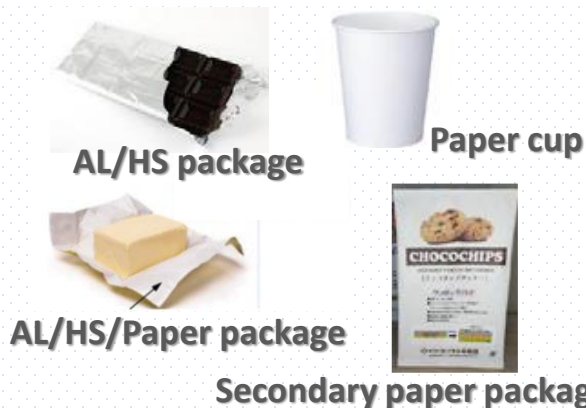


Chemipearl™ Water resistant & Sealable

Sustainable material management is an urgent task we face today. Chemipearl can promote material recycling and plastic reduction by achieving recyclable paper packages with little plastic usage. That's because Chemipearl is a sustainable coating which enhances water & oil resistance and heat sealability.

Chemipearl for food packaging



- ✓ Heat-seal coating for AL, paper substrates
- ✓ Non-chlorine based polymer (Poly olefin)
- ✓ Coated paper can be claimed for
 - Compliance with EN13430
 - OK compost Industrial
- ✓ Low carbon foot print (-40%)
- ✓ Excellent food contact conformity

Repulpability of Chemipearl coated paper

Chemipearl coated paper shows excellent repulpability. In contrast: Laminate PE is entangled and is not disaggregated.



PE laminated on 390gsm paper



Chemipearl 6gsm coated on 390gsm paper

Compostability of Chemipearl coated paper

Received OK compost Industrial certification.



Initial

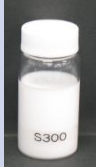



2 weeks



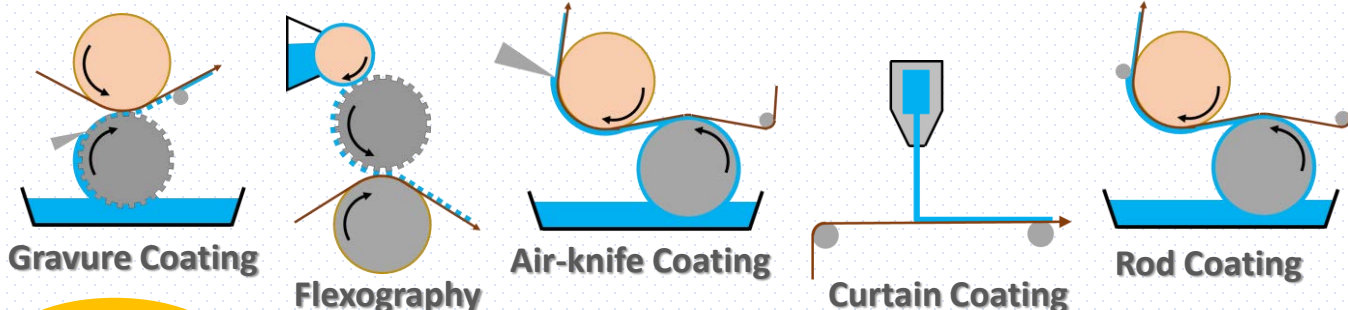
12 weeks

Chemipearl™ Water resistant & Sealable

Grade	S300	S500
Appearance	Milky liquid 	Milky liquid 
Solid content (wt. %)	35	42
Viscosity (mPa·s)	400	150
Ave. particle size (µm)	0.5	0.7
pH	10	9.5
MFT (°C)	65	55
Characteristics	Heat-resistance	Quick film forming

MFT; Minimum Film Forming Temperature

Coating methods



FAQ

What is the solid content?

27%-42% dispersed in water.

What is the coating weight?

3-6gsm is enough. (One to Two passes)

What is the drying temperature?

90-120°C is recommended, depending on the time.

How to coat?

Gravure coating / Flexo coating / Curtain coating, etc.

How to store?

Store above 0°C . Avoid direct sunlight.

Food contact conformity?

Please ask to contacts given below.

-Contact detail-

Mitsui Chemicals Europe GmbH

Oststr. 34 - 40211 Düsseldorf – Germany

Phone : +49 211 17332 314

E-Mail : Kangin.Park@mcie.de

Mitsui Chemicals America, INC.

800 Westchester Avenue, Suite S306, Rye Brook, NY 10573

Phone : +1-914-606-1755

E-Mail : S.Nomula@mitsuichem.com