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Waterbased Coating Product Guide

There is an ever increasing demand set upon Waterbased coatings. Not only their ability to dry fast, provide protection and the desired finish but they are also required to work on many machine types, over varying inks, a wide array of substrates as well operate at speeds up and beyond 16,000 sheets per hour. Here at Printchem we continue to develop our products along side major ink and machine manufacturers to ensure our products work with even the latest of technologies. Listed below is a core range of emulsion coatings designed specifically for the modern day machine and will satisfy all print requirements.

Core Range

<u>Code</u>	<u>Description</u>	<u>Viscosity</u>	<u>Gloss</u>	<u>Slip</u>	<u>Application</u>	<u>Glueable / Hot Foil Stampable</u>	<u>Heat Resistance</u>	<u>Block Resistance</u>	<u>Dry Speed</u>	<u>Brief</u>
PCW1001	Matt Emulsion	35 – 40	10 – 15	0.35 – 0.45	DS	Yes	120°C	High	Fast	A smooth matt emulsion
PCW2002	Silk Emulsion	33 – 38	30 – 35	0.35 – 0.45	DS	Yes	125°C	High	Fast	Smooth silk for everyday use
PCW3003	Neutral Emulsion	33 – 38	40 – 45	0.35 – 0.45	DS	Yes	125°C	High	Fast	Non enhancing sealer ideal for use on metallic's
PCW4004	DS Gloss Emulsion	33 – 37	55 – 60	0.35 – 0.45	DS	Yes	120°C	Med-High	Fast	General purpose work and turn gloss
PCW5000	SS High Gloss Emulsion	33 – 37	60 – 65	0.40 – 0.50	SS	Yes	110°C	Low-Med	Medium	General purpose packaging gloss emulsion
PCW2000	High Speed Satin Emulsion	33 – 38	30 – 35	0.35 – 0.45	DS	Yes	120°C	High	Very Fast	High speed satin for all press types
PCW4000	High Speed DS Gloss Emulsion	35 – 40	50 – 55	0.35 – 0.45	DS	Yes	125°C	High	Very Fast	High speed gloss for non absorbent substrates
PCW4008	Non Crazying DS Gloss	33 – 38	55 – 60	0.35 – 0.45	DS	Yes	125°C	High	Fast	Advanced formulation for heavy inked areas
PCW5003	SS High Viscosity High Gloss Emulsion	55 – 60	>70	0.40 – 0.50	SS	Yes	110°C	Low-Med	Slow-Med	High viscosity SS emulsion ideally suited for hot climates

**** Results specified above have been obtained using a quality controlled environment and materials. On press results may differ. Values for viscosity are for standard products but all can be supplied between 25 and 60second viscosity to suit customer requirements****

Along with the core range of emulsion coatings we also pride ourselves upon developing a technically advanced “specialty” range of products. This range includes such products as:

PCW1000 Super Matt Emulsion	Formulated to replicate the smooth matt finish found with matt lamination
PCW2001 Low Curl Silk Emulsion	Specifically formulated for use on low grammage light weight substrates where sheet cure and distortion occurs
PCW4001 Super High Gloss Double Sided Emulsion	Formulated to achieve the highest possible gloss whilst maintaining the “work and turn” properties required for commercial printing and finishing
PCW5005 Super High Gloss Single Sided Emulsion	Formulated to provide the highest possible gloss for use within packaging requirements

Other speciality products include:

- **High Slip and Rub** - Increased rub resistance for greater protection to the print and high slip for heightened feed in packaging lines.
- **Barrier Coatings** - Heat/Alcohol/Water/Grease resistant coatings that act as a preventative barrier against extreme conditions.
- **Direct Food Contact** - Products approved for use with food contact and low migration printing.
- **Blisterpack** - Specialist Blister pack adhesives for Blister packaging.
- **Pearlescents** - Available in a variety of colours and effects to add lustre to the printed image.
- **Heatset Web** - Specially formulated to withstand high temperature heatset drying ovens.
- **Primers** - For double coater machines and offline versions also, available in matt through to high gloss finishes.
- **Playing Card** - Casino and Trump card coatings with specific slip properties for producing high quality playing cards.
- **Tactile Coatings** - Haptic effect coatings such as Soft Feel Matt that add value to the printed product and give a specialist sensory effect.
- **Cigarette Packaging** - Coatings that meet requirements of Philip Morris, BAT and JTI relating to production of tobacco packaging.
- **Uncoated Stocks** - High solids formulations providing increased protection to over-absorbent substrates with high ink film weights.
- **Non-absorbent** - For materials such as plastics, metallised papers etc, that combine excellent anti-crazing, high rub and fast drying properties.
- **Lamination coatings** - High spec products that improve the acceptance of laminate films to the print, compared to standard coatings.
- **Anti Slip** - For specific packaging lines that require high friction in processing preventing release of sheets.
- **Drip Off Coatings** - Topcoat emulsion coatings to be used in conjunction with dedicated oil based sealers to produce a drip off effect.
- **Release Coatings** - For applications such as lottery scratch cards etc.
- **Calendaring** - Specialist coatings developed for the Calendaring process to produce gloss results similar to UV Varnish.
- **Duct emulsions** - High viscosity coatings for application via the ink duct. High stability and lower viscosity for improved runability.
- **Cleaning Agents** - A comprehensive range of pressroom chemistry targeted at waterbased coatings and inks.
- **Additives** - Useful problem solvers such as Retarder, Antifoam, and wetting agent that can be used to overcome press issues.

Further technical information such as shelf life, storage, handling etc can be found on our Technical data sheets.

For further information regarding this or other product ranges please contact the team at Printchem: info@printchem.co.uk