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Technical Data Sheet

Issued: 28/03/2021

2 pages

W798 Uncoated Neutral Sealer

Product Description

 Specialist waterbased coating that offers improved protection to uncoated papers as well as very low curl properties.

Application

- Sheetfed offset via coating unit (anilox or roller coater systems).
- Drying conditions required: IR and Hot Air circulation.
- Inline (wet-on-wet), over conventional inks
- Offline over conventional inks (wet-on-dry)

Product specification

Viscosity: 40-50secs Din4@25C

• Friction (Slip): 0.30-0.40static 0.20-0.30dynamic

Heat Resistance: ~140°C

 Single or Double sided? Both – for double sided printing make sure to optimize hot air and IR depending on substrate, and ink and coating film weights.

Properties

Gloss
Drying
Rub/Scuff Resistance
Block Resistance
Crazing Resistance

Post-Processing suitability

Gluing
Hot Foil Stamping
UV Varnishing
Laminating

Substrate

- Recommended for use on most uncoated coated paper and board but can also be used on coated substrates to give a high gloss finish.
- For uncoated papers/board, and papers below 115gsm this product offers exceptional low curl performance.

Food printing status

- This formulation has not been independently tested or approved for direct contact with foodstuffs or where Low Migration is a requirement, however is formulated in line with current approved products of ours in terms of chemical content.
- If used for food packaging a migration analysis according to regional/national/international food law should be conducted on the completed packaging and it is ultimately the responsibility of the end producer who brings the product into circulation to ensure it meets the relevant regulations.

Recommendations

- Stir well before use
- Wet film weight of 4-8gsm for most uncoated applications (may vary depending on substrate thickness).
- Inks should ideally be alkali resistant and wax free for optimum results. Testing ink suitability prior to production runs is recommended.
- Ideally inks should be vegetable based and be high in pigment to help maintain lower ink film weights.
- It is found that optimum results are obtained when the level of Infer red heat is reduced to a level of 10 – 20% and the Hot Air Knifes at a level of 80 – 90%.
- Test substrate suitability and check over various inks and absorbency can vary depending on the ink choice and colour as well as substrate permeability, that may appear as an insufficiently dried system or poor rub resistance.
- Check viscosity and adjust with water if absolutely necessary.
- Maximum stack temperature = 36°C.
- Ensure return pipes are positioned correctly to avoid unnecessary aeration of the coating prior to use.
 Down the side of the barrel and slightly beneath the coating surface is ideal – also check no holes are evident in the pipeline.



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- As a measure of best practice and if possible avoid coating glue folds as a greater bond can usually be achieved over unprinted paper/board.
- For Gluing/Foiling/Laminating/UV Varnishing best results are a combination of many factors so always test initial acceptance for any given job and allow the prints to completely dry before conducting these – minimum 24hours later.
- Avoid polluting the coating with washing fluids or other coatings. Flush coating system with water and cleaning agents when changing from one coating to another.

Packaging

25kg, 125kg, 150kg, 200kg, 600kg and 1000kg

Storage and Shelf Life

- Store between 5-30°C ideally.
- · Protect from freezing.
- If left unopened and kept in the correct conditions this product has a shelf life of 12 months from date of manufacture.
- After opening use up as soon as possible.
- Replace lids on containers when coating not in use.
- The coating may thicken if stored incorrectly or for a longer period of time.

Cleaning

- Clean machines and tools immediately with water.
 Dried or part-dried residues can be removed with suitable cleaning solutions – please consult our technical department for recommendations.
- Pipelines should be contaminant free before commencing printing so flush through with dedicated

emulsion wash as required. Consult our technical team for advice on recommended wash solutions.

Health and Safety

- Clean immediately with water if on skin or eyes
- If varnish contacts skin, clean well with soap and water. Contaminated clothing should be removed as soon as possible.
- All materials used in the manufacture of this product meet the requirements of EU Legislation Regulation (EC) No 1907/2006 REACH, where appropriate.
- Consult the MSDS for more detailed information.
- Do not allow coating to enter the water system.
- Dispose of according to local/regional/national regulations concerning disposal of hazardous waste.

Note

- The information contained in this data sheet corresponds with our current knowledge and experience. The liability for the application and processing of our products lies with the buyer, who is also responsible for observing the third party rights.
- We reserve the right to alter any of these details as a result of technical or manufacturing developments.
- This datasheet does not claim to be complete.
- For any further information please contact the technical department at ECS (Nottingham) LTD