

# Novaset® 4102/50 BARRIER DFC

High quality low-migration barrier coating for food packaging printing

## Water-based coating for sheetfed offset

### Product features

- Novaset® 4102/50 BARRIER DFC is a particularly low-odour and low-migration barrier coating which is used for temporary barrier against oil, fat and water. It is suitable as direct food contact coating for all kinds of food.
- Novaset® 4102/50 BARRIER DFC offers fast drying and very good rub protection.
- Novaset® 4102/50 BARRIER DFC has proven itself as a coating for the reverse side of board.
- Novaset® 4102/50 BARRIER DFC is only suitable for single-sided coating..
- Novaset® 4102/50 BARRIER DFC is particularly suited for the production of packaging that complies with the requirements of the EU-regulation 1935/2004 and 2023/2006 as well as with the Swiss Ordinance 817.023.21. Mineral oil is not used as an intentional formulation component of this coating.

### Advantages of Novaset® 4102/50 BARRIER DFC

- Particularly low-migration and low-odour.
- Complies with the requirements for water-based coatings for food packaging.
- Suitable for direct contact with all kinds of food.
- Temporary barrier against oil, fat and water.
- Good drying.
- Good rub protection.

# Novaset® 4102/50 BARRIER DFC

Printing properties											
	Drying	Gloss effect	Rub protection	Anti-Sealing	Suitability for perfecting	Hot foil stamping	Barrier properties	Blister ability	Wet blocking resistance	Slip	Glueability
Novaset® 4102/50 BARRIER DFC	4	4	5	4	-	6	6	-	4	1	7
1 = Characteristic weakly expressed 7 = Characteristic strongly expressed											
<i>The assessment of the product properties was made under standardised printing conditions. In individual cases, under special conditions, as in printing with very heavy coverage of coating, the classification of certain properties may be different.</i>											

<b>Product code</b>	VP30-0FDD-#### Final 4 digits relate to pack size.
<b>Pack sizes</b>	125 kg (LKMA), 220 kg (LKNF)
<b>Substrates</b>	Very well suited for coated paper and board.
<b>Application</b>	Sheetfed coating units
<b>Film weight</b>	5 – 6 g/m <sup>2</sup> wet application
<b>Drying</b>	Physical, forced with hot air-dryer and IR-dryer
<b>Viscosity</b>	50 s / 4 mm DIN cup / 20 °C
<b>Cleaning</b>	Please clean up machine and equipment immediately with water.
<b>Remarks</b>	Stir well before use! Only use coatable printing inks! Resistance against alcohol and alkali required.
<b>Storage</b>	Protect against frost, heat and direct sunlight. Storage in original packaging at 5 ° to 30 °Celsius.

You are welcome to contact us for further information.

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## Special notes

In order to preserve low-odour and low-migration properties, no additives such as retarders, defoamers or others may be added to the coating. An exemption to this rule is the addition of water to adjust the viscosity. It must be generally noted, that for the production of food packaging only materials suitable for this area of application are used.

In cases where a non-low-migration water-based coating has been used before printing with Novaset® 4102/50 BARRIER DFC, the printing press should be thoroughly cleaned taking care to remove all coating residues. For this purpose, if necessary, only washes suitable for low-migration printing should be used, taking into account the manufacturer's recommendations for use. Following the wash cycle, thorough rinsing with clean water is essential.

We recommend to leave any glue areas coating-free. Recommended drying times for the complete system i.e. substrate + ink + coating should be adhered to before further processing. Using non-absorbent substrates and/or slowly absorbent printing inks, we recommend to plan for the corresponding drying times.

In case of insufficient drying of the printing ink, a fault in form of a printing ink film splitting can't be excluded at a later refinement processes.

**We recommend to use this coating for direct food contact applications only on unprinted substrate. This coating does not represent a functional barrier against the migrating components of the ink.**

## Certificate

Novaset® 4102/50 BARRIER DFC is ISEGA-certificated.  
We will gladly provide you with a copy of the certificate upon request.

## Further information

For further information please refer to our Technical Reviews "Processing guideline Novaset Coatings", "Resistance requirements for surface finishing", "Good manufacturing practice food packages", "Novaset Coatings for direct food contact" and the EuPIA guideline "Printing inks for food packaging".

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