

DUAL EFFECT – coating system to generate gloss-matt effects

Water-based coating Novaset® 7306/40 DUAL EFFECT & oil-based varnish Novacoat® 9955 DUAL EFFECT

Oil-based overprint varnishes and water-based coatings for sheetfed offset

Product features

- DUAL EFFECT is a coating system to generate gloss-matt effects in commercial and packaging sheetfed offset printing. It consists of the water-based high gloss coating Novaset® 7306/40 DUAL EFFECT and the oil-based matt varnish Novacoat® 9955 DUAL EFFECT. The perfectly matched products offer fast drying and very good rub protection.
- The gloss-matt effect results from a full-surface high gloss coating after having partly applied matt varnish. All previously matt varnished areas appear matt, whilst the rest of the sheet is glossy.
- Further benefits of Novaset® 7306/40 DUAL EFFECT are good anti-sealing and stacking properties as well as a very high gloss. Novacoat® 9955 DUAL EFFECT has a small tendency to yellow and should only be used in combination with Novaset® 7306/40 DUAL EFFECT.
- DUAL EFFECT is suited for single-sided coating on all multi-colour presses that are equipped with a coating unit. Prints that are coated with DUAL EFFECT are not suitable for further finishing processes.

Advantages of DUAL EFFECT coating system

- To generate gloss-matt effects.
- Perfectly matched products.
- Fast drying.
- Very good rub protection.
- Suited for single-sided coating.

DUAL EFFECT – coating system

| | Printing properties | | | | | | | | | | |
|--|---------------------|--------------|----------------|--------------|--|-------------------|--------------------|-----------------|-------------------------|------|-------------|
| | Drying | Gloss effect | Rub protection | Anti-Sealing | Suitability for double-sided application | Hot foil stamping | Barrier properties | Blister ability | Wet blocking resistance | Slip | Glueability |
| Novaset® 7306/40 high gloss coating | 4 | 6 | 6 | 5 | - | 5 | - | - | 5 | 5 | 5 |
| 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> | | | | | | | | | | | |

Novaset® 7306/40 DUAL EFFECT

| | |
|---------------------|--|
| Product code | VP26-007D-#### (Final 4 digits relate to pack size). |
| Pack sizes | 25 kg (10J1), 125 kg (10MA) |
| Application | Sheetfed coating units |
| Film weight | 3 – 6 g/m ² wet application |
| Drying | Physical, forced with hot air-dryer and IR-dryer |
| Viscosity | 40 s / 4 mm DIN cub / 20 °C |
| Cleaning | Please clean machine and equipment immediately with water. |
| Remarks | Stir well before use! Only use coatable printing inks! Resistance against alcohol and alkali required. |
| Storage | Protect against frost, heat and direct sunlight. Storage in original packaging at 5° to 30° Celsius. |
| Hints | Due to the low-odour and low-migration properties of Novaset® 7306/40 DUAL EFFECT the coating is suitable for the printing of food packaging, when just the water-based coating is applied and not the coating system. |

You are welcome to contact us for further information.

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of Flint Group's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted.

DUAL EFFECT – coating system



| Printing properties | | | | | | |
|--|-------------|------------------------|------------------------|---------|----------------|----------------------------|
| Gloss | Matt effect | Wet on Wet suitability | Wet on Dry suitability | Setting | Rub protection | Suitability for Perfecting |
| Novacoat® 9955 DUAL EFFECT matt varnish | - | 6 | 7 | 6 | 6 | 4 |
| 1 = Characteristic weakly expressed 7 = Characteristic strongly expressed | | | | | | |
| <i>The assessment of the varnish properties was made under standardised printing conditions. In individual cases, under special conditions, as in printing with very thick layers of varnish, the classification of certain properties may be different.</i> | | | | | | |

Novacoat® 9955 DUAL EFFECT

| | |
|---------------------|--|
| Product code | VP10-055I-01BM |
| Pack sizes | 2,5kg can |
| Drying | oxidative drying |
| Film weight | Optimal application quantity: 1.5 – 1.8 g/m ² If the quantity remains within this range, optimal rub protection and matt effect can be achieved. |
| Exceptions | Don't use Novacoat® 9955 DUAL EFFECT on food packaging without functional barrier |

You are welcome to contact us for further information.

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of Flint Group's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted.

DUAL EFFECT – coating system

| | |
|----------------------------|---|
| Substrates | Coated and uncoated paper and board. |
| Remarks | Printing inks varnished with an oil-based overprint varnished don't need any specific fastness properties. For subsequent coating with water-based coating, resistance against alcohol and alkali are required. |
| Special notes | <p>The gloss-matt effect depends on various factors. Apart from the absorption behaviour of the substrate and total ink coverage, the applied film weight of the oil-based varnish and water-based coating are the main considerations. When using anti set-off powders, they must be suitable for water-based coatings.</p> <p>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.</p> <p>The entire characteristic profile (effect, rub protection) develops after the drying process is completed. Stack temperatures above 35 °C should be avoided.</p> |
| Further information | For further information please refer to our Technical Reviews "Processing guideline water-based coatings" and "Resistance requirements for surface finishing". |

More products. Streamlined access. Greater results.

Flint Group offers a uniquely powerful combination of products, services and expertise; giving you access to the industry's broadest range of pressroom products.

Inks & Coatings. Pressroom Chemicals. Blankets. Sleeves. Consumables.

Rely on us for consistency, reliability and customer focus. Our aim is to make it easier for you to achieve your business goals. With Flint Group products in your pressroom, you can run your business with confidence and peace of mind.

You are welcome to contact us for further information.

Flint Group
Commercial, Publication & Sheetfed Inks
Sieglesstrasse 25
70469 Stuttgart, Germany

T +49 711 98 16-0
F +49 711 98 16-700
sheetfed@flintgrp.com
www.flintgrp.com

The aim of our technical documents is to inform and advise our customers. The information provided herein is correct to the best of Flint Group's knowledge. No liability for any errors, facts or opinions is accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted.

Product names followed by ® are trademarks registered by Flint Group (represented by Flint Group US LLC or Flint Group Germany GmbH).

Version: 06.04.2022 Page 4 of 4