

# Transparent whites for sheetfed offset

## Range overview

### Product features

- Transparent whites are used for the lightening of printing inks and as an important component in colour mixing.
- They are formulated ready-to-print and their composition corresponds to the one of spot inks. Based on BIO-binders, they contain transparent fillers instead of coloured pigments.
- Flint Group's transparent white range is designed to cater for a variety of needs, types of substrates and areas of application in sheetfed offset.
- Each base colour ink series is supplemented by a specific transparent white, which features the same printing properties as the base colour inks. If spot inks are mixed with the appropriate transparent white, the transparent white does not change the printability properties and the rheological properties remain largely unchanged.
- All products of the transparent white portfolio feature good printability.

### Advantages of the transparent white range

- Ready-to-print.
- For lightening of printing inks and as a component in colour mixing.
- Good printability.
- The rheological properties remain largely unchanged.
- Range caters for a variety of areas of application and types of substrates.
- Optimally matched to Flint Group's base colour ink series.

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Product	Product Code	Product features / Drying properties	Dosage recommendation	Printing properties							
				Gloss	Setting	Oxidative drying	Rub resistance	Rapid further processing	Suitability for coated papers/board	Suitability for uncoated papers/board	Suitability for foils
<b>Novavit® Easy Mix BIO Transparent white</b>	VI60-000*	Duct-fresh. As a component in colour mixing, to mix PANTONE® colour shades and for continuous printing.	as required	5	5	3	3	3	6	5	1
<b>Novavit® Eco Mix BIO Transparent white</b>	VI62-000*	Duct-fresh. As a component in colour mixing, to mix PANTONE® colour shades.	as required	5	5	3	3	3	6	5	1
<b>Novavit® BCS BIO INTENSIVE Transparent white</b>	VZ19-000*	Duct-fresh. As a component in colour mixing. All purpose transparent white.	as required	5	5	2	3	2	6	5	1
<b>Novaboard® BCS BIO INTENSIVE Transparent white</b>	VZ21-000*	Drying by oxidation and setting. As a component in colour mixing. Very good rub resistance.	as required	5	3	6	6	6	6	6	4
<b>Novavit® 6 P 12 BIO Transparent white</b>	VI78-010*	Drying by oxidation and setting. As a component in colour mixing. Slightly opaque.	as required	3	4	5	5	5	6	5	1
<b>Novaplast® 1 S 110 Transparent white</b>	VI81-091*	Drying by oxidation only. As a component in colour mixing, for non-absorbent substrates.	as required	5	3	7	6	5	5	5	7
<b>Novasens® BCS PRIME Transparent white</b>	VZ94-000*	Drying by setting only. As a component in colour mixing, for food packaging printing.	as required	4	3	1	2	3	6	4	1

\* Depending on the producing site

1 = Characteristic weakly expressed 7 = Characteristic strongly expressed

**The assessment of the colour properties was made under standardised printing conditions. In individual cases, under special conditions, as in printing with very high ink densities, the classification of certain properties may be different**

You are welcome to contact us for further information.

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## Additives

All products are ready-to-print. With the exception of Novasens® BCS PRIME Transparent white the following additives may be used to adapt viscosity and tack:

Printing oil L (VU20-019*)	1 - 3 % to adapt viscosity and tack
Reduxpaste 4800 BIO (VU10-032*)	2 - 5 % to adapt the tack

Never add dryers to Novasens® BCS PRIME Transparent white or to the fountain solution. Only the below mentioned products are suitable as additives:

Novasens® PRIME Reducer (VU10-01Y*)	1 - 3 % to adapt viscosity and tack
Novasens® PRIME Reduxpaste (VU10-02D*)	2 - 5 % to adapt the tack

## Surface Finishing/ Fastness properties

The formulation of the transparent whites corresponds to those of the respective base colour ink series, and instead of coloured pigments, transparent fillers are used. For subsequent finishing necessary resistance requirements are determined by the properties of the pigments. The use of transparent whites does not have any influence with regard to the fastness properties of the ink.

## Exceptions

With the exception of Novasens® BCS PRIME Transparent white all products of the transparent white range are not for use on food packaging without functional barrier.

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