



CORONA®-GA 5015 low-odour*

The ideal special process series
for organoleptically neutral print products

The following requirements apply in relation to food and consumables packaging:

- There must be no organoleptic changes (changes of odour or taste) to the package contents
- Migration must remain within the set limits
- There must be no change in the colour of the package contents

Food and consumables packages must be printed using sheet-fed offset inks that do not have any adverse effect on either the odour or the taste of the package contents. The development of a new vehicle and the use of selected raw materials and production methods has led to the creation of low-odour* sheet-fed offset inks that set new standards.

Migration and invisible set-off must be prevented by arranging for suitable processing conditions and selecting a substrate or primary packaging with adequate barrier properties.

MGA-CORONA® sheet-fed offset inks, MGA-ACRYLAC® water-based coatings and MGA® fount concentrates together constitute a low-migration system ideal for producing food packaging made of paper and cardboard.

More information on the subject of food and consumables (semi-luxury foods and tobacco) packaging can be found in the information sheet entitled „Druckfarben für Lebensmittelverpackungen“ (Printing inks for food packaging) published by the German Printing Ink Manufacturers' Association.

Inks from the CORONA®-GA 5015 series cover a wide range of applications in the manufacture of high-quality packaging.

CORONA®-GA 5015		Fastness properties per DIN 16 524/25				
		Light WS	Alcohol	Solvent mixture	Alkali	Drying
Yellow	41 GA 5015	5	+	+	+	by setting only
Magenta	42 GA 5015	5	+	+	-	by setting only
Cyan	43 GA 5015	8	+	+	+	by setting only
Black	49 GA 5015	8	+	+	+	by setting only

Naturally, in addition to the process colours, we can also formulate any shade you would like as well as all corporate and packaging colours on the basis of CORONA®-GA.

* The term „low-odour“ refers to prints that have been made with these inks

Special properties

- CORONA®-GA inks can be used in a similar way to conventional inks and are suitable for use in all sheet-fed offset presses and on all stocks.
- These inks dry solely through setting and not by oxidation. Due to their drying mechanism, prints made with CORONA®-GA inks do not offer adequate rub resistance. Inline coating with organoleptically neutral, water-based coating is obligatory.
- Organoleptic assessment of printed products produces excellent results („Robinson tests“ EN 1230 T1 and T2).
- The fact that the inks do not dry by oxidation means no substances are produced that change the odour or taste of the package contents. One example of such substances are short-chain aldehydes. Printed products made using CORONA®-GA inks therefore also have a low hexanal content. Particularly high requirements in this regard are fulfilled by our CORONA®-HGA 5028 sheet-fed offset series.
- If the substrate or primary packaging used to make the packaging does not act as an adequate barrier, there is a possibility of substances migrating from the packaging to its contents. In this case, we recommend you use our MGA-CORONA® 5045 sheet-fed offset series (low-migration, organoleptically neutral).

Application instructions

Fount solution delivery and composition

It is best to keep the dampener setting low, particularly when ink coverage is low. The isopropanol concentration in the fount solution must not exceed 10 %, with a pH of 5.0 – 5.4.

Roller treatment / Washup

Due to the possible negative effect on printed packages with respect to odour and taste, the rollers must not be sprayed with Anti-drier or Farbfit. After washing the rollers, leave them to dry well.

Water-based coating delivery

We recommend that you set the coating application rate to the upper limit, in order to obtain an uninterrupted film over the inks. In this way, you can avoid the following problems:

- Inadequate rub resistance
- Setoff in the stack
- Insufficient dust removal during bronzing.

We recommend that you use, for example, our water-based coating **ACRYLAC® High Gloss 57 0010/40**.

Format setting

The area coated should end approx. 5 mm from the edge of the paper on all sides.

Printing auxiliaries

To reduce the tack of the ink, use our low-odour **Paste Reducer 10 T 0550**. To tone down or brighten the colour, use our low-odour **Transparent White 40 GA 0550**. Under no circumstances should you add siccatives of any kind in an attempt to prevent the build-up of organoleptically active substances.

Ink mixtures

CORONA®-GA inks may only be mixed with inks of the same type.

Classification

Safety Data Sheet available on request.

How supplied

Printing ink

2.5-kg vacuum-sealed cans

Water-based coating

25-kg plastic canister

600-kg IBC (intermediate bulk container)

Contact addresses for advice and further information can be found under www.hubergroup.de

This Technical information sheet reflects the current state of our knowledge. It is designed to inform and advise. We assume no liability for correctness. Modifications may be made in the interest of technical improvement.