



Technical information

FLEXO AND GRAVURE PRINTING INKS AND VARNISHES

The production of gravure and flexo printing inks at Cinkarna started in 1963 is a milestone in the production of printing inks in Cinkarna Celje. Our main goal when developing new products and improving the already established ones is supported by selection of high quality raw materials in order to follow the market demands and to satisfy our clients. Cinkarna produces high quality white titanium dioxide pigment which is also used in the production of white flexo/gravure printing inks. Advanced equipment and numerous measuring and control devices applied during the process provide great production flexibility and first-rate quality of products. We provide technical support to all our customers, either when introducing new products as well as when searching for the optimum solutions for the individual client.

SOLVENT BASED FLEXO AND GRAVURE PRINTING INKS AND VARNISHES

PLASTOFLEX – 92 series; surface printing inks and varnishes

PLASTOFLEX INKS

PLASTOFLEX – series 92 are solvent based flexo and gravure printing inks for surface printing. For gravure print we recommend 10% - 20 % additive of varnish 9203 or 9200.

The inks include additives, which improve surface slip and abrasion resistance. Due to ink's excellent properties we can print with high speeds on all kind of gravure and flexo printing machines.

Properties of the prints

- high gloss
- thermo stability up to 180°C
- excellent adhesion on printing substrate
- excellent abrasion and scratch resistance
- optimum surface slip properties
- conditional water resistance

Printing substrates

- treated PE, PES, PA, PP
- varnished and unvarnished PETP
- treated metallised PP
- cellophane (MX, MS)
- varnished Al-foil
- paper and cardboard

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| Number/name of ink | Light fastness |
|--------------------------------------------------|----------------|
| 9210 OB-S PLASTOFLEX – BELA / WHITE | 8 |
| 9215 PLASTOFLEX – RUMENA / YELLOW | 4 |
| 9216/L PLASTOFLEX – RUMENA / YELLOW | 6-7 |
| 9220 PLASTOFLEX – RUMENA 012 / YELLOW 012 | 6 |
| 9230 PLASTOFLEX – ORANŽNA 021 / ORANGE 021 | 6 |
| 9235 PLASTOFLEX – TOPLO RDEČA / WARM RED | 3 |
| 9239 PLASTOFLEX – RDEČA 032 / RED 032 | 3 |
| 92395 PLASTOFLEX – RDEČA / RED PANTONE 1925 C | 5 |
| 9240 PLASTOFLEX – RUBIN RDEČA / RUBINE RED | 4 |
| 9242/L PLASTOFLEX – RDEČA / RED PANTONE 199 C | 6-7 |
| 9245 PLASTOFLEX – ROZA / RHODAMINE RED | 4-5 |
| 9255 PLASTOFLEX – ZELENA / GREEN | 8 |
| 9260 PLASTOFLEX – PROCES MODRA / PROCESS BLUE | 8 |
| 9270 PLASTOFLEX – MODRA 072 / BLUE 072 | 4 |
| 9280 PLASTOFLEX – REFLEKS MODRA / REFLEX BLUE | 4 |
| 9285 PLASTOFLEX – VIJOLIČNA / VIOLET | 4 |
| 9290 PLASTOFLEX – ČRNA / BLACK | 8 |
| 9298 PLASTOFLEX – SREBRNA / SILVER PANTONE 877 C | 8 |
| 92871 PLASTOFLEX – ZLATA / GOLD PANTONE 871 C | 6-7 |
| 92872 PLASTOFLEX – ZLATA / GOLD PANTONE 872 C | 6-7 |
| 92873 PLASTOFLEX – ZLATA / GOLD PANTONE 873 C | 6-7 |
| 92874 PLASTOFLEX – ZLATA / GOLD PANTONE 874 C | 6-7 |
| 92875 PLASTOFLEX – ZLATA / GOLD PANTONE 875 C | 6-7 |
| 92876 PLASTOFLEX – ZLATA / GOLD PANTONE 876 C | 6-7 |

The chart (values of light fastness) is valid for Plastoflex, Laminatflex, Elastoflex, Plastogravur and Laminatgravur inks.

Special shades are made by request.

Gold shades are not suitable for printing on absorbable materials respectively they have to be tested first on the requested printing surface.



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PLASTOFLEX WHITE INKS

- **9210 OB-S PLASTOFLEX** – BELA / WHITE, universal white ink with good brightness and opacity
- **9210 OB-SL PLASTOFLEX** – BELA / WHITE, improve surface slip properties, good brightness and opacity
- **9210 OB-SL-GL PLASTOFLEX** – BELA / WHITE, improve surface slip properties, high gloss, good brightness and opacity
- **9210 MAT PLASTOFLEX** – BELA / WHITE, ink with matt effect

PLASTOFLEX VARNISHES

Plastoflex varnishes are intended for making Plastoflex inks from Concentrates, for lightening of Plastoflex printing inks and for protective printed material. We produce several types of Plastoflex varnishes:

- **9200 PLASTOFLEX** – LAK / VARNISH, for inks lightening
- **9200 SLOW PLASTOFLEX** – LAK / VARNISH, for inks lightening with slower drying
- **9200 MAT PLASTOFLEX** – MAT LAK / MATT VARNISH
- **9201 PLASTOFLEX** - OSNOVNI LAK / PRIMER, primer for Al-foil
- **9203 PLASTOFLEX** – LAK-VEZIVO / VARNISH-BINDER, for making Plastoflex inks from Koncentrats. Printed material varnished with 9203, has better water and abrasion resistance.
- **9203 SLOW PLASTOFLEX** - LAK-VEZIVO/VARNISH-BINDER, for making Plastoflex inks from Koncentrats with slower drying. Printed material varnished with 9203 SLOW has better water and abrasion resistance.
- **9204 PLASTOFLEX** – ZAŠČITNI LAK/PROTECTIVE VARNISH (gloss); it protects printed material against mechanical damage, improve water resistance and prevents static electricity on tool for finishing of printed material.
- **9204 MAT PLASTOFLEX** – ZAŠČITNI LAK / PROTECTIVE VARNISH (matt); it protects printed material against mechanical damage, improve water resistance and prevents static electricity on tool for finishing of printed material.
- **9205 MAT PLASTOFLEX** – MAT LAK / MATT VARNISH, with strong matt effect. We can use it also as matt binder for making Plastoflex matt inks from Koncentrats.

PLASTOFLEX SC INKS

Plastoflex SC inks are special thermo stable gravure and flexo inks, specially designed for double-side printing on foil in a tube. We produce Plastoflex SC inks in all basic shades.



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PLASTOFLEX SET INKS

Plastoflex SET inks are high pigmented and slow drying inks for four colour flexo printing with low coating quantity of ink (max. 5 cm³), intended for surface printing. We produce them only in basic colours for four colour print (CMYK). With low coating quantity of ink in printing process we reach full colouristic images and good contrast. All prints are resistant to abrasion and scratches.

Due to above written ink's properties, they are not suitable for printing with high coating quantities of inks.

For better adhesion and thermostability we recommend up to 1% of the TO Dodatek/Additive on already diluted ink.

| Number/name of ink | Light fastness |
|---------------------------------------------------|----------------|
| 9215 SET PLASTOFLEX – RUMENA / YELLOW | 4 |
| 9216/L SET PLASTOFLEX – RUMENA / YELLOW | 6-7 |
| 9240 SET PLASTOFLEX – MAGENTA | 4 |
| 9242/L SET PLASTOFLEX – RDEČA / RED PANTONE 199 C | 6-7 |
| 9260 SET PLASTOFLEX – CYAN | 8 |
| 9290 SET PLASTOFLEX – ČRNA / BLACK | 8 |

LAMINATFLEX – 94 series; inks and varnishes for laminating

LAMINATFLEX INKS

LAMINATFLEX – series 94 are solvent based flexo and gravure printing inks intended for inside printing, where the printed material is laminated. For gravure print we recommend 10% - 20 % additive of varnish 9400 or 9400-TO.

The inks have no surface slip additives, therefore they are not suitable for surface printing. Due to excellent printing properties the printing process is not limited with speed of the press (high speed presses allowed). With these inks we can print on all sorts of gravure and flexographic printing presses.

Properties of the prints

- high gloss
- thermo stability up to 240°C
- excellent printability
- excellent adhesion

Printing substrates

- treated PE, PES, PA, PP
- varnished and unvarnished PETP
- treated metallised PP
- cellophane (MX, MS)



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- varnished Al-foil
- paper and cardboard

LAMINATFLEX VARNISHES

Laminatflex varnishes are intended for making Laminatflex inks from Koncentrats and for lightening of Laminatflex printing inks. We produce several types of Laminatflex varnishes:

- **9400 LAMINATFLEX** – LAK / VARNISH, for lightening of already prepared Laminatflex inks and for making Laminatflex inks from Koncentrats.
- **9400 SLOW LAMINATFLEX** – LAK / VARNISH, with slower drying, for lightening of already prepared Laminatflex inks and for making Lamintaflex SLOW inks from Koncentrats.
- **9400-TO LAMINATFLEX** – LAK-VEZIVO / VARNISH-BINDER, for making Laminatflex inks from Koncentrats
- **9400-TO SLOW LAMINATFLEX** – LAK-VEZIVO / VARNISH-BINDER, with slower drying, making Lamintaflex SLOW inks from Koncentrats.

LAMINATFLEX SET INKS

Laminatflex SET inks are high pigmented and slow drying inks for four colour flexo printing with low coating quantity of ink (max. 5 cm³), intended for inside printing, where the printed material is laminated. We produce them only in basic colours for four colour print (CMYK). With low coating quantity of ink in printing process we reach full colouristic images and good contrast.

Due to above written ink's properties, they are not suitable for printing with high coating quantities of inks.

For better adhesion and thermostability we recommend up to 1% of the TO Dodatek/Additive on already diluted ink.

| Number/name of ink | Light fastness |
|-----------------------------------------------------------|----------------|
| 9415 SET LAMINATFLEX – RUMENA / YELLOW | 4 |
| 9416/L SET LAMINATFLEX – RUMENA / YELLOW | 6-7 |
| 9440 SET LAMINATFLEX – MAGENTA | 4 |
| 9442/L SET LAMINATFLEX – RDEČA / RED PANTONE 199 C | 6-7 |
| 9460 SET LAMINATFLEX – CYAN | 8 |
| 9490 SET LAMINATFLEX – ČRNA / BLACK | 8 |

ELASTOFLEX – 96 series; inks for PE-thermoshrinkable materials

ELASTOFLEX – series 96 are very elastic solvent based flexo and gravure printing inks, made for application on thermo-shrinkable PE-foils. Special shadows are made by request.



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LAMINATGRAVUR – 90 series; gravure printing inks and varnishes; inside print

LAMINATGRAVUR – series 90 are solvent based gravure printing inks and varnishes intended for inside printing, where the printed material is laminated.

The inks should be diluted before printing: 15 – 18 s (Ford 4, DIN 53211).

For dilution use just ETA Razredčilo/Thinner or P Razredčilo/Thinner.

- **Laminatgravur inks** we produce them in all basic shades, only by request.
- **9000 LAMINATGRAVUR – LAK-VEZIVO / VARNISH-BINDER**, for lightening of already prepared Laminatgravur inks and for making Laminatgravur inks from Koncentrats.

PLASTOGRAVUR – 91 series; gravure printing inks and varnishes; surface print

PLASTOGRAVUR – series 91 are solvent based gravure printing inks and varnishes intended for surface printing. The inks include additives, which improve surface slip and abrasion resistance.

The inks should be diluted before printing: 15 – 18 s (Ford 4, DIN 53211).

For dilution use just ETA Razredčilo/Thinner or P Razredčilo/Thinner.

- **Plastogravur inks** we produce them in all basic shades, only by request.
- **9100 PLASTOGRAVUR – LAK-VEZIVO / VARNISH-BINDER**, for lightening of already prepared Plastogravur inks and for making Plastogravur inks from Koncentrats.

KONCENTRATS

KONCENTRATS are concentrated, pigmented prepared substances made for:

- making inks: Koncentrat + suitable binder
- adding to already prepared inks for improve colour strength
- as additive for ink refreshment
- as additive for using the rest of the inks, which we are collecting together by shades

Koncentrats contain minimum quantity of binder and do not contain any other additives, therefore are suitable for making gravure and flexo inks any qualities.

Ex: mark of Koncentrat for yellow ink is: **KONCENTRAT 15 – RUMENA / YELLOW**

With adding suitable binder, we get suitable quality of inks. With Concentrate as itself we can not print, therefore we must add in the ink minimum 40% of binder to obtain good properties of the inks. Koncentrats are produced in all basic shades (view the chart below), except gold shades.

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| Number/name of concentrate | Light fastness |
|-------------------------------------------------------|----------------|
| KONCENTRAT 10 – BELA / WHITE | 10 |
| KONCENTRAT 15 – RUMENA / YELLOW | 4 |
| KONCENTRAT 16/L – RUMENA / YELLOW | 6-7 |
| KONCENTRAT 20 – RUMENA 012 / YELLOW 012 | 6 |
| KONCENTRAT 30 – ORANŽNA 021 / ORANGE 021 | 6 |
| KONCENTRAT 35 – TOPLO RDEČA / WARM RED | 3 |
| KONCENTRAT 39 – RDEČA 032 / RED 032 | 3 |
| KONCENTRAT 395 – RDEČA / RED PANTONE 1925 C | 5 |
| KONCENTRAT 40 – RUBIN RDEČA / RUBINE RED | 4 |
| KONCENTRAT 42/L – RDEČA / RED PANTONE 199 C | 6-7 |
| KONCENTRAT 45 – ROZA / RHODAMINE RED | 4-5 |
| KONCENTRAT 55 – ZELENA / GREEN | 8 |
| KONCENTRAT 60 – PROCES MODRA / PROCESS BLUE | 8 |
| KONCENTRAT 70 – MODRA 072 / BLUE 072 | 4 |
| KONCENTRAT 80 – REFLEKS MODRA / EFLEX BLUE | 4 |
| KONCENTRAT 85 – VIJOLIČNA / VIOLET | 4 |
| KONCENTRAT 90 – ČRNA / BLACK | 8 |
| KONCENTRAT 98 – SREBRNA / SILVER PANTONE 877 C | 8 |



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ADDITIVES

| Additive | Purpose | Plastoflex | Laminatflex | Elastoflex | Laminatgravur | Plastogravur |
|--------------------------------|---------------------------------------------------------|------------|-------------|----------------------------|---------------|--------------|
| TP Antipenilec/Defoamer | To prevent foaming | < 1,0% | < 1,0% | < 1,0% | No adding | No adding |
| 90 Antipenilec/Defoamer | To prevent foaming | < 1,0% | < 1,0% | < 1,0% | < 1,0% | < 1,0% |
| TO Dodatek /Additive | Improve adhesion and thermostability | < 2,5 % | < 2,5 % | No adding Exceptionally | < 2,5 % | < 2,5 % |
| TGO Dodatek/Additive | Improve surface slip properties and abrasion resistance | < 5,0% | No adding | < 5,0% | No adding | < 5,0% |
| V Dodatek/Additive | Improve abrasion resistance | < 5,0% | No adding | < 5,0% | No adding | < 5,0% |

*Note: for all solvent based printing inks with capital letter A in the ink type description (e.g. 9410 **OB-A**), the additive values of TO Dodatek/Additive, listed in the table, DO NOT APPLY. For further information contact technical support.*

THINNERS

| Thinner | Evaporating number * |
|---------------------------------------------------------------------------------------|----------------------|
| P Razredčilo /Thinner (80% ethanol and 20 % ethyl acetate; normally dry) | 7 |
| ETA Razredčilo /Thinner (ethyl acetate; fast dry) | 3 |
| RNE Razredčilo/Retarder (1-methoxypropan-2-ol; slow dry) | 25 |
| RNL Upočasnjevalec/Retarder (di-propylene glycol- methyl ether; very slow dry) | 80 |

* Evaporating index of thinner tells us how many times thinner evaporates slower compared to the ether

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WATER BASED FLEXO AND GRAVURE PRINTING INKS AND VARNISHES

AQUAFLEX – 86 series

AQUAFLEX – series 86 are 100 % water based flexo and gravure printing inks and varnishes. For dilution use just water. After printing, the tools and rollers can be washed with water before ink dries. Dried ink has to be removed with Ethanol or with Aquanol čistilo/Cleaner (gel or liquid).

Properties of the prints

- high gloss
- good colour strength
- excellent scratch and abrasion resistance
- good water resistance

Printing substrates

- all kind of paper
- all kind of cardboard

We produce Aquaflex inks in following shades:

| Number/name of ink | Light fastness |
|--------------------------------------------------|----------------|
| 8610 AQUAFLEX – BELA / WHIEW | 8 |
| 8615 AQUAFLEX – RUMENA / YELLOW | 4 |
| 8620 AQUAFLEX – RUMENA 012 / YELLOW 012 | 6 |
| 8630 AQUAFLEX – ORANŽNA 021 / ORANGE 021 | 6 |
| 8635 AQUAFLEX – TOPLO RDEČA / WARM RED | 2 |
| 8639 AQUAFLEX – RDEČA 032 / RED 032 | 2-3 |
| 8640 AQUAFLEX – RIBIN RDEČA / RUBINE RED | 4 |
| 8655 AQUAFLEX – ZELENA / GREEN | 7-8 |
| 8660 AQUAFLEX – PROCES MODRA/PROCESS BLUE | 7-8 |
| 8670 AQUAFLEX – MODRA 072 / BLUE 072 | 4 |



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| | |
|-------------------------------------------------|---|
| 8680 AQUAFLEX – REFKS MODR / REFLEX BLUE | 4 |
| 8685 AQUAFLEX – VIJOLIČNA / VIOLET | 4 |
| 8690 AQUAFLEX – ČRNA / BLACK | 8 |
| 8698 AQUAFLEX – SREBRNA / SILVER | 8 |

Special shades are made by request.

AQUAFLEX VARNISHES

Aquaflex varnishes are used as binder for making Aquaflex inks, for lightening of Aquaflex inks and for additional protection of prints. We produce:

- **8600 AQUAFLEX** – LAK-VEZIVO/VARNISH-BINDER; for making Aquaflex inks
- **8601 AQUAFLEX** – LAK-VARNISH; for lightening Aquaflex inks and protection of prints

AQUANOL SPECIAL – 89 series

AQUANOL SPECIAL – series 89 are water based flexo and gravure printing inks and varnishes. They contain some Ethanol and Isopropyl alcohol, therefore, they have good drying. After printing, the tools and rollers can be washed with water before ink dries. Dried ink has to be removed with Ethanol or with Aquanol čistilo/Cleaner (gel or liquid).

Properties of the prints

- gloss
- good drying
- excellent scratch and abrasion resistance
- good water resistance

Printing substrates

- all kind of paper
- all kind of cardboard

Aquanol Special inks may be diluted with:

- water,
- Ethanol; drying accelerator
- Ethanol diluted with water ; drying accelerator
- RNE Razredčilo/Retarder; drying retarder

We produce Aquanol special inks in following shades:



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| Number/name of ink | Light fastness |
|-----------------------------------------------------------|----------------|
| 8910 AQUANOL SPECIAL – BELA / WHEW | 8 |
| 8915 AQUANOL SPECIAL – RUMENA / YELLOW | 4 |
| 8920 AQUANOL SPECIAL – RUMENA 012 / YELLOW 012 | 6 |
| 8930 AQUANOL SPECIAL – ORANŽNA 021 / ORANGE 021 | 6 |
| 8935 AQUANOL SPECIAL – TOPLO RDEČA / WARM RED | 2 |
| 8939 AQUANOL SPECIAL – RDEČA 032 / RED 032 | 2-3 |
| 8940 AQUANOL SPECIAL – RIBIN RDEČA / RUBINE RED | 4 |
| 8955 AQUANOL SPECIAL – ZELENA / GREEN | 7-8 |
| 8960 AQUANOL SPECIAL – PROCES MODRA / PROCESS BLUE | 7-8 |
| 8970 AQUANOL SPECIAL – MODRA 072 / BLUE 072 | 4 |
| 8980 AQUANOL SPECIAL – REFLEKS MODRA / REFLEX BLUE | 4 |
| 8985 AQUANOL SPECIAL – VIJOLIČNA / VIOLET | 4 |
| 8990 AQUANOL SPECIAL – ČRNA / BLACK | 8 |
| 8998 AQUANOL SPECIAL – SREBRNA / SILVER | 8 |

Special shades are made by request.

AQUANOL SPECIAL VARNISHES

Aquanol special varnishes are used as binder for making Aquanol special inks, for lightening of Aquanol special inks and for additional protection of prints. We produce:

- **8900 AQUANOL SPECIAL** – LAK-VARNISH; for lightening Aquanol special inks and protection of prints
- **8901 AQUANOL SPECIAL** – LAK-VEZIVO/VARNISH-BINDER; for making Aquanol special inks

CONCENTRAT INK - AQUA

CONCENTRAT INK – AQUA are 100 % water based high pigmented flexo and gravure printing inks . They are suitable for printing on: absorbable paper, coated paper and cardboard. Dry prints are waterproof, glossy and have good scratch resistance. After printing, the tools and rollers can be washed with water before ink dries. Dried ink has to be removed with Ethanol or with Aquanol čistilo/Cleaner (gel or liquid).

AQUA KONCENTRATS

AQUA KONCENTRATS are water based pigment preparations intended for:

- making Aquaflex and Aquanol special inks (Aquanol koncentrat + appropriate binder)
- adding to Aquaflex and Aquanol special inks for improve colour strength



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- as additive for refreshment Aquaflex and Aquanol special inks

ADDITIVES

| Additive | Purpose | Aquanol special | Aquaflex | Concentrate ink - aqua |
|--------------------------------|-------------------------------------------------|-----------------|-------------|------------------------|
| W Dodatek/Additive | Improve slip properties and abrasion resistance | 2,0 – 4,0 % | 2,0 – 4,0 % | 2,0 – 4,0 % |
| 86 Antipenilec/Defoamer | To prevent foaming | No adding | 0,5 – 1,0 % | 0,5 – 1,0 % |
| PP Antipenilec/Defoamer | To prevent foaming | 0,5 – 1,0 % | No adding | No adding |

WASHING-UP AGENTS

Aquanol čistilo/Cleaner (gel) is cleaning agent used for removing dry water soluble inks from all types of soiled surfaces. It is especially recommended for ink rollers cleaning.

Pour Aquanol cleaner over the roller surface, spread it with a sponge over the whole surface and let it work for maximum one hour, depending on how soiled the surface is. Use a sponge or a cloth to wash the roller with water or solution (Ethanol or Thinner ETA) and leave it to dry. If necessary, repeat the procedure. Aquanol cleaner gives good results in cleaning ink rollers after the use of solvent - based inks.

Aquanol čistilo/Cleaner (liquid) is primarily intended for automatic cleaning flexo printing machines after printing with water based inks.

CAUTION!

When cleaning with Aquanol čistilo/Cleaner, use chemical-proof protective gloves, chemical resistant. If the cleaning agent comes in contact with eyes or skin, wash it off thoroughly with water, and if necessary seek medical help.

MAKING INKS FROM CONCENTRATES

Inks can be made by concentrates (Konzentrats, Aqua koncentrats) and appropriate varnish/binder. Varnishes and concentrates are packaged in 20 kg buckets or in 200 kg drums for mixing lines. Concentrates can be mixed with binders in varying proportions, but it should be considered: for flexo printing should be added at least 40 % and for gravure printing at least 50 % of binder. Inks with too low content of binder don't have good printability and dry prints don't have enough good properties. Additives can be used, but we must follow the instructions listed in Tables Additives.



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Making PLASTOFLEX inks:

KONCENTRAT + 9203 PLASTOFLEX – LAK-VEZIVO/VARNISH-BINDER →

PLASTOFLEX ink

KONCENTRAT + 9203 SLOW PLASTOFLEX – LAK-VEZIVO/VARNISH-BINDER →

PLASTOFLEX SLOW ink (slow drying)

KONCENTRAT + 9205 MAT PLASTOFLEX - MAT LAK/MATT VARNISH +2% Dodatek TO/Additive →

PLASTOFLEX MAT ink

Making LAMINATFLEX inks:

KONCENTRAT + 9400 LAMINATFLEX – LAK-VARNISH + 2% Dodatek TO/Additive →

LAMINATFLEX ink

KONCENTRAT + 9400 SLOW LAMINATFLEX – LAK / VARNISH + 2% Dodatek TO/Additive →

LAMINATFLEX SLOW ink (slow drying)

KONCENTRAT + 9400 TO LAMINATFLE – LAK-VEZIVO / VARNISH-BINDER →

LAMINATFLEX ink

KONCENTRAT + 9400 TO SLOW LAMINATFLEX – LAK-VEZIVO / VARNISH-BINDER →

LAMINATFLEX SLOW ink (slow drying)

Making LAMINATGRAVUR inks:

KONCENTRAT + 9000 LAMINATGRAVUR – LAK-VEZIVO / VARNISH-BINDER →

LAMINATGRAVUR ink

Making PLASTOGRAVUR inks:

KONCENTRAT + 9100 PLASTOGRAVUR – LAK-VEZIVO / VARNISH-BINDER →

PLASTOGRAVUR ink

Making AQUANOL SPECIAL inks:

AQUA KONCENTRAT + 8901 AQUANOL SPECIAL – LAK-VEZIVO/VARNISH-BINDER →

AQUANOL SPECIAL ink

Making AQUAFLEX inks:

AQUA KONCENTRAT + 8600 AQUAFLEX – LAK-VEZIVO/VARNISH-BINDER →

AQUAFLEX ink



Technical information

FCC INK'S CATALOGUE

FCC means Flex Cinkarna Celje.

Basic ink shades in catalogue are printed with coating quantity 6 g/m² or 6 cm³/m² while white ink and metal inks with 10 g/m² or 10 cm³/m². The following materials were used for printing on:

- Coated paper Multipak 90 g/m²
- Treated PE 80 microns
- Varnished aluminium foil
- Natron paper

How to order: number of ink is composed with first two and last two numbers. First two numbers determine quality of ink (Plastoflex, Laminatflex, Elastoflex, Plastogravur, Laminatgravur, Aquanol and Aquanol Special), while last two numbers determine ink shadow according FCC catalogue.

For example: Determination of ink shadow 15 from FCC catalogue:

| | |
|------------------------|------------------------|
| PLASTOFLEX | ... 9215 yellow |
| LAMINATFLEX | ... 9415 yellow |
| ELASTOFLEX | ... 9615 yellow |
| PLASTOGRAVUR | ... 9015 yellow |
| LAMINATGRAVUR | ... 9115 yellow |
| AQUAFLEX | ... 8615 yellow |
| AQUANOL SPECIAL | ... 8915 yellow |

STORAGE

Gravure and flexo printing inks and varnishes have limit of use at list one year, under following conditions:

- proper storing
- proper using and following the instructions for use.

Inks have to be stored by following storage instructions.

We recommend ink storing in a dry, well-closed place with the temperature between 5 and 25°C. Water based inks are particularly sensitive to low temperatures. Before use, give inks a good stir and warm them up to the room temperature.

The instructions are based on our own expertise and experience. Before using the products, test them to suit your own purpose.