

## CRS<sup>max</sup> system basic colour inks

Standard basic inks, resistances and binder variants for the conventional offset spot colour ink mixing system



The CRSmax ink mixing system consists of highly concentrated, mono-pigmented basic colour inks with binder variants for a multitude of applications. While traditional colour communication systems leave the required fastnesses for printing and converting mostly unattended, the mineral oil-free CRSmax allows for full control on resistances and drying of the spot inks to be made.

### Here is the list of the most important benefits of CRSmax:

- Individual control of all the fastnesses.
- Fast and safe matching of spot colour inks, offering flexibility and speed for the jobs to run within optimised schedules.
- Smart opportunity to reduce residual inks, because added quantities for safety are not needed and minimum order quantities do not apply.
- Convenient options to rework residual inks that have been mixed with CRSmax base inks.
- Reduction of ink stock from uncountable spot colours to the few base colours.
- Ability to switch between different vehicle systems (binder options) using the same recipe.
- Mineral oil-free system

### Basic colour inks

Choosing a suitable base inks assortment is of paramount importance in order to set the foundation for a convenient mixing process. The companies of the hubergroup are offering their CRSmax base colour inks (Computer-Recipe-System) for mixing. The mineral oil-free CRSmax system comprises of print ready, mono-pigmented base colour inks with highest pigment concentration and individual fastnesses, including transparent white, black and light black. A number of those base colours are compiled to make up a mixing system that meets your individual goals.

## Applications / binder variants

CRSmax is available in a number of binder options and the range of applications is the deciding factor for selecting the suitable binder variant. For ordering, the code for the required variant has to be inserted in place of the wildcard (three dots in the listing of the bases). The binder codes and their special properties are explained in the following listing:

Series	Example Sales code	Properties
<b>QX</b>	41 <b>QX</b> 7703	Oxidative drying and setting, stay open (duct fresh) version for absorbent substrates. This version is for automatic dispensing systems and contains no dryer. Dryer has to be added as a separate component.
<b>QFX</b>	41 <b>QFX</b> 7703	Oxidative drying and setting, stay open (duct fresh) version for absorbent <b>and less absorbent substrates</b> . This version is for automatic dispensing systems and contains no dryer. Dryer has to be added as a separate component.
<b>MGA NATURA</b>	41 <b>MGA</b> 7703P	Purely setting drying, ready to use, low migration and low odour version. For printing the non-food contact side of food packaging of absorbent substrates. Finishing with water-based coating is essential.
<b>MGA CORONA</b>	41 <b>MGA</b> 7703D	Purely setting drying, ready to use, low migration and low odour version. For printing the non-food contact side of food packaging of absorbent substrates. Finishing with water-based coating is essential.
<b>MGA LABEL</b>	41 <b>NX</b> 7703	Oxidative drying, special low migration food packaging printing ink. This version is for printing the non-food contact side of food packaging, particularly thin films or poor absorbent substrates. This version contains no dryer. Dryer has to be added as a separate component. <b>Note: Due to the excellent drying properties, skin formation occurs in individual cases in drums and hobbock.</b>

# Technical Information

16.S.024 | Conventional Offset Systems | Spot Colour Inks, Mixing Systems

## Available inks

	sales code			Shade	Name	C2C Status	Transparency	Fastness <sup>1,2</sup>														
	prefix	Series	suffix					Lightfastness	Alcohol	Solvent	Alkali	Lye	UV varnish	water based varnish	Lamination	detergent	Soap	Oil und Fat	Butter	Heat resistance	Sterilisation	
Standard range	40	...	7550		CRS <sup>max</sup> Transparent White		l	8	+	+	+	+	+	+	+	+	+	+	+	220°	+	
	41	...	7703		CRS <sup>max</sup> Yellow		l	5	+	+	+	+	+	+	+	+	+	+	+	+	200°	+
	41	...	7704		CRS <sup>max</sup> Orange		l	5	+	+	+	+	+	+	+	+	+	+	+	+	180°	+
	42	...	7706		CRS <sup>max</sup> Red yellowish		l	6	+	/	+	+	+	+	+	-	+	-	-	+	150°	
	42	...	7708		CRS <sup>max</sup> Magenta		l	5	+	+	-	-	+	+	-	-	+	+	+	+	200°	+
	42	...	7712		CRS <sup>max</sup> Pink fast		l	7-8	+	+	+	+	+	+	+	+	+	+	+	+	200°	+
	43	...	7726		CRS <sup>max</sup> Violet fast		l	7-8	+	+	+	+	+	+	+	+	+	+	+	+	220°	+
	43	...	7720		CRS <sup>max</sup> Cyan		l	8	+	+	+	+	+	+	+	+	+	+	+	+	200°	+
	44	...	7722		CRS <sup>max</sup> Green		l	8	+	+	+	+	+	+	+	+	+	+	+	+	200°	+
	49	...	7700		CRS <sup>max</sup> Black			d	8	+	+	+	+	+	+	+	+	+	+	+	200°	+
Commercial addition	42	...	7730		CRS <sup>max</sup> Red		l	3	+	-	-	-	-	-	-	-	-	-	+	-		
	42	...	7711		CRS <sup>max</sup> Red		l	4	-	-	-	-	-	-	-	-	-	-	+	-		
	43	...	7715		CRS <sup>max</sup> Purple		l	4	-	-	-	-	-	-	-	-	-	-	-	-		
	43	...	7717		CRS <sup>max</sup> Violet		l	4	-	-	-	-	+	-	-	-	-	-	-	-		
	43	...	7718		CRS <sup>max</sup> Reflex Blue		l	4	-	-	-	+	-	-	-	+	-	-	+	+		
43	...	7719		CRS <sup>max</sup> Blue		l	4	-	-	-	+	-	-	-	-	-	-	-	-	-		
Special range	41	...	7732		CRS <sup>max</sup> Yellow reddish		l	5	+	+	+	+	+	+	+	+	+	+	+	+		
	41	...	7705		CRS <sup>max</sup> Yellow fast		l	7	+	+	+	+	+	+	+	+	+	+	+	+	220°	+
	41	...	7735		CRS <sup>max</sup> Yellow fast		l	6-7	+	+	+	+	+	+	+	+	+	+	+	+		
	41	...	7728		CRS <sup>max</sup> Orange fast		l	7	+	+	+	+	+	+	+	+	+	+	+	+		
	42	...	7731		CRS <sup>max</sup> Red yellowish fast		l	8	+	+	+	+	+	+	+	+	+	+	+	+	200°	+
	42	...	7734		CRS <sup>max</sup> Red bluish fast		l	6	+	+	+	+	+	+	+	+	+	+	+	+	200°	+
	43	...	7721		CRS <sup>max</sup> Blue reddish fast		l	8	+	+	+	+	+	+	+	+	+	+	+	+		
	49	...	7111		CRS <sup>max</sup> Black light			ld	8	+	+	+	+	+	+	+	+	+	+	+	200°	+
47	...	0240		CRS <sup>max</sup> Opaque White			d	8	+	+	+	+	+	+	+	+	+	+	+	200°	+	

Legend: l = translucent      d = opaque      ld = slightly opaque      + = yes      - = No      / = conditionally

C2C Status:		Silver		Bronze		None
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- Resistances according to ISO 12040 and ISO 2836.
- For some special applications water-based coatings can contain solvents. CRS<sup>max</sup> basic colours with resistance features of (/) or (-) for solvent mixture can show colour change when they are combined with these types of coatings in one application. Please contact your coating supplier about the necessary resistances of the ink prior to production.