

Technical Information

DF75

Performance Coatings

CerDeChromAdvanz – Ceramic Color Management System

Seven-Color Printing Onglaze Colors for the Decoration of Porcelain, Bone China, Vitreous China, and Earthenware

Firing Range 780 to 900 °C

CerDeChromAdvanz gives us the opportunity of doing the first seven-color printing process in the ceramic industry. The seven-color printing process enables us to reproduce designs favourably compared to the original design in an economical way.

Printing Parameters

Following printing parameters are recommended:

Screen textile: polyester 120 (305 mesh/inch)

Screening: 48 lines per cm / 120 lines per inch (elliptic)

Screen angle:

Magenta, Green, Blue: 75 °

Cyan, Red: 15 °

Yellow, Black: 45 °

Squeegee hardness: 75 - 80 °shore

The indicated values for the screen angle are only recommendations according to our experience. These values should, however, be tested under individual processing condition before use. Coating flux 10 169 fits perfectly as a top coat when required. Recommended mixing ratio: 10 parts coating flux 10 169 to 10 parts medium 80 3012.

Table 1: CerDeChromAdvanz onglaze products for seven color printing

Sequence of prints		Color shade	Product-no.	Pasting ratio	
1 st	print	cyan	12 1522	10:8	color : medium 80 810
2 nd	print	yellow	13 884	10:8	color : medium 80 810
3 rd	print	magenta	77 1241	10:8	color : medium 80 810
	Intermediate	print with medium	80 3012		
4 th	print	green	11 1244	10:8	color : medium 80 810
5 th	print	blue	72 2500	10:7	color : medium 80 810
6 th	print	red	17 894	10:5,5	color : medium 80 820
7 th	print	black	14 1232	10:8	color : medium 80 810

Firing Conditions

Normal firing: 780 – 830 °C

Fast firing: 850 – 900 °C.

Resistance

The colors have been tested according to EN 1388.1 and 1388.2 (4 % acetic acid at 22 °C, 24 h). Heavy metal release is far below the official restrictions.

Safety Data Sheets

Our safety data sheets, which are available for every product, provide you with useful advice for working with our products.

Quality

All Vibrantz products are manufactured according to stringent specifications, and thoroughly tested before leaving our premises. Vibrantz's quality control procedures are warranted by DIN EN ISO 9001, and certification is carried out annually.

Storage

Powder colors should be stored in a dry place. In order to ensure that the colors have not absorbed any humidity, we recommend drying the powder color at approx. 130 °C prior to mixing.

The information and recommendations contained herein are based on data we believe to be reliable and does not imply any warranty or performance guarantee, as conditions and methods of use of our products are beyond our control. The data herein is determined using Vibrantz's standard test methods. Hazard and safety information with respect to this product is available in the applicable SDS. Vibrantz will not be liable under any circumstance for consequential or incidental damages, including but not limited to, lost profits resulting from the use of our products.