Product INFO

Marabu

Ultraglass UVGL: UV for Glass – Now the Oven stays Cold!

Benefit from the Advantages of UV Curing, save Energy, Time, and Money!

Screen
Sep 2006
revised
Oct 2008

Limited resources and energy efficiency are keywords often mentioned in the glass sector. The valid European and US-American regulations ('EU-Richtlinie 94/62, Art. 11' and 'Proposition 65') are characteristic of the trend from ceramic enamels towards UV curing. Experts agree: In glass printing, UV-curable inks are on the road to success.

Ultraglass UVGL

The most important benefit of UVGL: Highest resistances without additional post baking! The economic implications become obvious - the absence of oven drying leads to significant time (seconds vs. hours curing time) and energy savings (not uncommon to reduce by 65%).

Applications

The no longer necessary oven baking provides the significant advantage that also large-area substrates can now be handled Beyond the main applications of restaurant and container glass (drinking glasses and bottles, cosmetic flacons, etc.), UVGL focuses therefore on large-area flat glass for interior decoration. Examples: Tabletops, cabinet doors, showers, mirrors, gambling machines.

Ultraglass UVGL – Your Benefits:

- **No oven baking necessary**
  → Considerably reduced energy and investment costs, efficient production through high production speeds, trouble-free handling of large-area substrates → Enormous energy, time, and space saving
- **Highly reactive**
  → Fast curing and production speeds
  → Time and cost saving
- **Heavy metal-free formulation**
  → Environment-friendlier alternative compared with ceramic enamels
  → No legal restrictions concerning the decoration of restaurant/container glass
- **Very good adhesion, excellent scratch, alkaline, chemical, and dishwasher resistance**
  → Universal suitability also for highly stressed restaurant and container glass
  → Quality and process safety
- **Brilliant, glossy colour shades**
  → Excellent appearance

Processing

As a 2-component ink, UVGL is to be processed with Adhesion Modifier UV-HV 8.
Since glass surfaces and the requirements on the end product may vary considerably, the pre-treatment of the substrate is decisive for successful glass printing or coating. Prior to printing, we recommend therefore at least a pre-treatment by flame. Best results are obtained with a Pyrosil® or Uvitro® pre-treatment.

Ultraglass UVGL is not suitable for permanent outdoor use.

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Range

Available in 1 kg units,
Art.-No. 3740 57 xxx

System Ultracolor Basic Shades

922 Light Yellow
924 Medium Yellow
926 Orange
932 Scarlet Red
934 Carmine Red
936 Magenta
950 Violet
952 Ultramarine Blue
956 Brilliant Blue
960 Blue Green
962 Grass Green
970 White
980 Black

High Opaque Shades

For strong colour shades also on dark or transparent glass
170 Opaque White
180 Opaque Black
122 Opaque Light Yellow
132 Opaque Scarlet Red
152 Opaque Ultramarine Blue
162 Opaque Grass Green

4-Colour Process Shades

Intensive, brilliant colour shades through especially high colour density
428 Process Yellow
438 Process Red
458 Process Blue
488 Process Black

Etch Imitations

With different structures, for impressive frost patterns and sand blast effects
913 Varnish, milky-matt (course structure)
914 Varnish, satin-transparent (fine structure)

Clears

904 Special Binder
409 Transparent Base

Comparison	Ultraglass UVGL	Ultraglass UVGO	
Oven baking (O)	no	recommended	
	without O	without O	with O
Adhesion/ Scratch Resist.	+++	++	+++
Chemical Resistances	+++	++	+++
Dishwasher resistance	+++	++	+++
Gloss level	glossy	high-gloss	
Colour range	27	34 + Bronzes	

+++ = very good ++ = good

Positioning within the segment Glass

Through its universal and modern application possibilities, Ultragloss UVGL opens further application fields within the glass decoration with UV-curable inks. Where oven drying of large-dimensioned objects previously was impossible, the omission of the thermal post-treatment now offers an enormously expanded number of applications.

For further information please visit

www.marabu-inks.com

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