

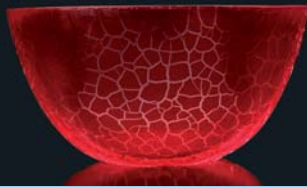
*No question of liking -
Croco-Effect is an eye-catcher!*

Besides shape it's mainly the colour that makes glass products more beautiful, decorative, and functional. Croco Effect is a water borne glass coating for individual solutions in challenging design.

Croco Effect Hydroglaslack is a high quality organic coating that shows a very decorative crackle effect. To adopt the durabilities to the function of the varnished object, Croco Effect can be recoated trouble-free with our product lines Hydroglasur, Hydrodecor, or Hydrocont. Thus Croco Effect is suitable for any imaginable application, be it tableware, decorative objects, beverage bottles, or cosmetic packagings.

Croco Effect Hydroglaslack is coated wet in wet over Hydrocont paint types. The resulting crackle effect can be influenced by the coating thickness to the desired structure. The size of the cracks is absolutely reproducible.





PRODUCT VERSIONS AND COLOURS

Croco Effect Hydroglaslack is available in the following product versions:

CROCO-EFFECT GLE100

brilliant to mat
transparent through opaque to hiding

Formation of small and fine cracks
(film thickness only has a low impact on the effect)

CROCO-EFFECT GLE110

brilliant to mat
transparent through opaque to hiding

Formation of small and bigger cracks
(film thickness determines the crackle effect)

Both Hydrocont, which has to be used as the first coat, and Croco Effect Hydroglaslack are available in an assortment of basic colours that enables our customers to mix any desired colour shade. Special colours according to the customer's specification, e.g. from the common colour charts or sample items can be produced short-term. Thus a variety of colour combinations is available.

All basic colours of GLE100 and GLE110 are mixable in any ratio. This allows on one hand the production of a nearly unlimited variety of colour shades, on the other hand it permits finishes with smooth transitions from one colour to another.

Beside the basic colours you can choose from a multitude of effect coatings like metallic colours, gold, silver, copper, neon colours or pearl effects. Effect coatings may show reduced durability. Please conduct tests.

PROPERTIES

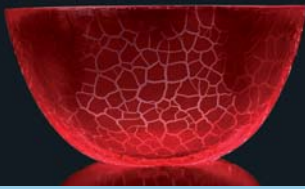
Croco Effect Hydroglaslack is a high-class organic water borne coating with outstanding properties:

- The basic colours of our product line Croco Effect Hydroglaslack show preeminent light fastness (indoor).
- The coatings are free of heavy metals und other toxic substances.
- Recoating Croco Effect Hydroglaslack with Hydroglasur, Hydrodecor, or Hydrocont makes it universally applicable as the top coat is responsible for the properties such as dishwasher resistance or ruggedness against scratching



TECHNICAL REQUIREMENTS AND APPLICATION GUIDELINES

STORAGE AND SHELF LIFE:	Croco Effect Hydroglaslack should be stored in original containers between +5°C and +25°C. Appropriate storing provided, shelf life is minimum three months.									
VISCOSITIES:	Croco Effect Hydroglaslack is usually delivered ready-to-use; for further information please consult the technical information sheet.									
SUBSTRATE:	The precondition for proper finishing results is a clean glass surface, i.e. free from fat, dust, finger prints, or slip agents (end coating).									
THINNING / CLEANING:	Demineralized (deionised, distilled, fully desalted) water									
NOZZLE SIZE:	manual spray gun: 0.8 to 1.5 mm or automatic application: 0.5 to 1.0 mm									
PRESSURE:	approx. 3 to 4 bar (atomisation)									
PAINT PRESSURE:	max. 1 bar, usually 0.6 bar									
RECOMMENDED FILM THICKNESS:	variable; the formation of crackles varies with the film thickness									
<p>During application the object as well as paint and spraying equipment must have a temperature of min. 15°C. It is possible to varnish pre-heated pieces – for proper flow the pieces should not be heated above 40°C though. Warm surfaces speed up evaporation and thus result in thicker layers.</p>										
FORMATION OF THE EFFECT:	The formation of crackles happens during physical drying. Applying GLE110 the crackles form in dependence of the film thickness: the thicker the film, the broader the crackles. This feature is absolutely reproducible.									
CURING CONDITIONS:	<p>Croco Effect Hydroglaslack cures in a temperature range of 150 to 190°C, e.g.</p> <table border="0"> <tr> <td>30 Min.</td> <td> </td> <td>at 150°C object temperature</td> </tr> <tr> <td>15 Min.</td> <td> </td> <td>at 170°C object temperature</td> </tr> <tr> <td>8 Min.</td> <td> </td> <td>at 190°C object temperature</td> </tr> </table> <p>A pre-drying at 30 to 80°C for 8 to 10 Min. is recommended to prevent the formation of blisters. No post curing at room temperature. In case of insufficient cross-linking, proper curing can only be accomplished by reheating to temperatures above 160°C.</p>	30 Min.		at 150°C object temperature	15 Min.		at 170°C object temperature	8 Min.		at 190°C object temperature
30 Min.		at 150°C object temperature								
15 Min.		at 170°C object temperature								
8 Min.		at 190°C object temperature								
<p>Please consider that the heat-up time may vary significantly depending on wall thickness. We recommend checking the degree of curing by the following test: the coating may not soften after 16 to 24 hours storage in cold water. If softening occurs, the curing is not completed and additional baking is required.</p>										
SAFETY INFORMATION:	<p>Croco Effect Hydroglaslack is not a dangerous material with respect to the German chemical regulations as well as the corresponding EU rules. This product, therefore, does not require any special labelling. It is not classified dangerous transport material.</p> <p>Please consult the safety data sheet for Croco Effect Hydroglaslack. It contains information for the handling, product safety and the industrial hygiene of this product.</p>									

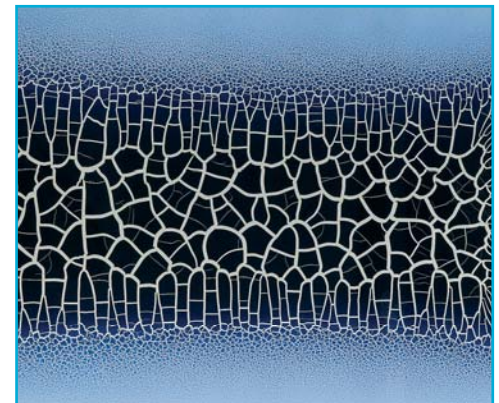


CROCO-EFFECT HYDROGLASLACK

EFFECT COATINGS

DESIGN EXAMPLES:

These are only a few examples of the multitude of application and design options with Croco Effect:



Note! The information submitted in this publication is based on our current knowledge and experience. The provided information does not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislations are observed.