

## DIEGEL: ENCHANTING GLASSWARE!

*Individual solutions for challenging design!*

Besides shape it's mainly the colour that makes glass products more beautiful, decorative, and functional. Especially when looked at in the light glass products develop their own special character.

Whether talking about fine tableware, highly attractive perfume bottles, all kinds of beverage bottles, or decorative glass objects in living and business environments:

*Our glass coatings make  
the strong finish!*

ANY IMAGINABLE COLOUR

NUMEROUS NUANCES  
from transparent to hiding

FASCINATING EFFECTS

AS TOUGH AND DURABLE  
against environmental influences as designated

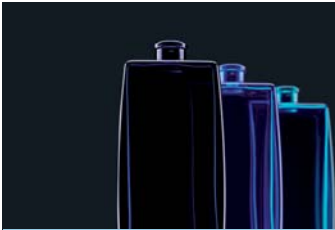
ESPECIALLY DESIGNED  
for the specific requirements of the glass industry

INDIVIDUALLY ADJUSTED  
for every customer, for every product

FULL RANGE OF WATER BORNE COATINGS  
of course free of heavy metals

NO ISSUES IN GLASS RECYCLING





HYDROGLASUR • HYDRODECOR

*Meets the highest demands - first choice for tableware!*

**HYDROGLASUR** is the economic alternative for the production of coloured glass items with an unlimited variety of colours and effects. From highly transparent to completely hiding, from brilliant to mat, only your imagination defines the limits. Of course free of heavy metals and easy in application, Hydroglasur is the modern technical solution for coloured glass tableware.

Hydroglasur is a water borne coating system for the coloured decoration of glass surfaces in the interior. Due to its properties it's especially suited for the coating of household glassware such as drinking glasses, plates, or bowls that are cleaned in the dishwasher regularly. Objects coated with Hydroglasur are hard to distinguish from pigmented or etched glass.

Hydroglasur opens new possibilities in the design of glass objects and is the first choice wherever the design of glass objects has to meet exceptional requirements and where high durability as well as an economical production play a decisive role.

HYDROGLASUR



*The solution for decorative design - uncompromising, yet economical!*

**HYDRODECOR:** Colour is a fundamental element to communicate moods. Therefore modern living and work environments are being arranged along colour conceptions that match all components of a room. Vases, tealights, candle holders and other decorative objects made of glass serve as links between the ample surfaces of walls, flooring, and furniture – thus they are an essential part of the furnishing and unthinkable to live without.

Especially for this market we have developed our product line Hydrodecor. Hydrodecor opens new possibilities in the design of glassware. It's the right choice for objects that demand an unlimited colour range, extravagant designs, or special surfaces as well as a high resistance against a lot of chemicals or food ingredients. Coating with Hydrodecor is the economical and environment-friendly alternative to pigmented glass.

Objects coated with Hydrodecor feature the durability that is required for decorative glass items, e.g. 15 to 20 cycles in the household dishwasher. Hard to distinguish optically from pigmented glass, Hydrodecor supplies an unlimited variety of colours and effects and thus allows the production of decorative glass objects with the highest aesthetic demands.

HYDRODECOR



### HYDROCONT • EFFECT COATINGS • SPECIAL SOLUTIONS

*Highest process reliability and optimal durability!*

**HYDROCONT:** the economical solution for the decoration of glass packagings such as perfume or beverage bottles. Its excellent resistance against a vast number of fillings in combination with its very good mechanical properties produces coatings that not only comply with the aesthetic demands of your customers, but also meet the technical requirements for an economical operation on fast-moving filling lines.

Highly transparent and brilliant or mat and opaque, coatings made with Hydrocont are hardly distinguishable from pigmented glass, but without the limitation in the colour range and naturally free of heavy metals.

A wide application window has been given great importance in the development of Hydrocont. So, even complicatedly shaped perfume bottles can be coated trouble-free with Hydrocont. Conventionally or by means of electrostatics, finishing with Hydrocont is easy and economical. The one-pack water borne coating is cured at 150°C to 180°C and offers a high process reliability.

#### HYDROCONT



*For glass design that makes the difference!*

**EFFECT COATINGS:** By varying colour, transparency, and degree of gloss DIEGEL glass coatings already supply you with a virtually unlimited potential to differentiate your glass products from everything out there. But there are still more options:

We offer you a whole range of special surface effects: from metallics, copper, gold, and silver shades through multicolour optics and neon colours up to fluorescent colours.

And really impressing: Croco effect with decorative cracks and 3D effect with a fascinating depth effect.

All effects can be equipped with the required durability, such as dish washer resistance or extreme ruggedness against scratching, simply by recoating.

#### EFFECT COATINGS



*The tailored solution for your requirements!*

**SPECIAL SOLUTIONS:** Sometimes the standard solution is not enough to meet your requirements. With more than ten years of experience in the development of glass coatings and a team of competent application engineers DIEGEL is the perfect partner to develop personalized solutions for your particular requirements.

#### SPECIAL SOLUTIONS

**WELL THEN: CHALLENGE US!  
WE ARE THE GLASS COATING PROFESSIONALS!**



## YOUR ADVANTAGE USING DIEGEL GLASS COATINGS

**DIEGEL** glass coatings are designed as single component baking finishes. That means for you:

- DIEGEL glass coatings come ready-to-use, no additions necessary
- no pot life to be considered
- no explosion protection required
- all equipment can easily be cleaned with water

**DIEGEL** glass coatings show considerable advantages over pigmented or etched glass:

- DIEGEL glass coatings are free of heavy metals
- by varnishing the prefabricated glass object, the colouring is uncoupled completely from the glass production and even smallest lots can be produced economically
- the short lead time for spray-painting reduces your warehousing risk for finished products by far and you can react short-term to modified requirements of your customers

## THE RIGHT PRODUCT FOR YOUR APPLICATION

AREA OF APPLICATION	GENERAL REQUIREMENTS	COATING SOLUTION
<b>KITCHEN AND TABLE</b>		<b>HYDROGLASUR</b>
Plates, cups, drinking glasses, carafes, decanters, parings, bowls, ash trays, and other tableware for daily use.	Special coatings for highly durable coloured finishing that remain resistant in tough everyday operation and that comply with all requirements of comfortable and carefree use and cleaning.	Organic water borne coating for tableware with outstanding properties, such as dishwasher resistance of minimum 500 cycles in the household dishwasher.
<b>DECORATIVE OBJECTS</b>		<b>HYDRODECOR</b>
Vases, flower pots, candle holders, tealights, and other decorative objects made of glass, porcelain, or ceramics	Special coatings for durable coloured finishing with a wide range of design options. Economies play an important role in this market but at the same time it has to be considered that the objects must be easy to clean.	The alternative for products with mainly decorative functions, still providing a minimum of 15 to 20 cycles in the household dishwasher for occasional cleaning.
<b>CONTAINER GLASS</b>		<b>HYDROCONT</b>
Disposable bottles for alcoholic and non-alcoholic beverages, elaborately designed perfume bottles and cream jars, or other glass items that do not require dishwasher resistance	Special coatings for coloured finishing or frosting of bottles or glass containers for the cosmetic industry. High requirements regarding ruggedness against scratching and resistance against media.	Organic water borne coating. Abrasion resistant and rugged against scratching for safe handling during filling and transport. Resistant against water, alcohol, and cosmetics.