

LECHSYS HYDRO

WATER-BORNE
PAINTING
SOLUTIONS
FOR INDUSTRY



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“SUSTAINABILITY” IS A TERM MUCH ABUSED TODAY, BUT IT CONTINUES TO REMAIN AN IMPORTANT VALUE AND **A CONCRETE NEED**, THAT IS TO MOVE THE COLLECTIVE CONSCIOUSNESS TOWARDS **GREATER AWARENESS AND GREATER PROTECTION OF OUR PLANET.**



In the world of paints, “sustainability” mainly means:

- being ameliorative compared to past technologies
- being protective compared to a virgin material

In the first statement there is all the research and technological development of a constantly evolving world, which offers us innovations year after year to be implemented to reduce the impact of paints on health and the environment.

In the second axiom there is the awareness that selecting a correct painting process not only embellishes an object, but also protects it and extends its useful life by decreasing over time the waste caused by the natural degradation of materials.

LECHSYS HYDRO WAS BORN TO COMBINE PROTECTION AND DECORATION IN A SINGLE PRODUCT AND IT IS OFFERED AS A COMPLETE AND HIGH PERFORMING SOLUTION BOTH FROM THE **ECOLOGICAL ASPECT** AND FROM THE **PROTECTIVE AND AESTHETIC ASPECT**.



Using a water-borne product, as an alternative to a solvent-based one, must first and foremost be a choice of responsibility towards the environment by the customer.



Quality and safety of the painting processes



The products offered by the Lechsys Hydro system have very low solvent contents, consequently the obtainable painting processes allow to drastically reduce the V.O.C. emissions. All the painting processes developed by the R&D laboratories are certified by the ISO 9001: 2015 and ISO 14001: 2015 quality systems and offer a guarantee of absolute reliability and safety of use.

Completeness of range



The completeness of the range allows you to sample standard colours (such as RAL and NCS), pastel finishes or effect colours using the most suitable painting process for the multiple production and application scenarios, always responding promptly to every design and aesthetic requirement.

Certified reliability



The painting processes are tested both internally and through the collaboration with partner companies, so as to reach the market with a reliable, safe and punctual proposal. The range of colours is formulated with highly resistant, lead-free and latest-generation pigments, in order to meet the highest quality demands and specifications of the industrial world.

Intinta service: productivity and efficiency



To support the spread of water-borne technology, we have created the Intinta Service, which allows the widespread supply of even small quantities to all interested customers who do not have a stirring machine. The service allows you to order all the colours of the main collections starting from a 4-liter can. Furthermore, thanks to the high opacity of all colours, it is possible to improve the productivity of the painting processes, reducing application times and material consumption.

A simple and functional management



The configuration with binder in a pre-dosed system allows considerable savings in production time and a more rational management of stocks with reduced inventory. Lechsys Hydro products are available in a rich colorimetry of colours at all official Lechler distributors who own the stirring machine. The system is complete with technical documentation, colour tools and professional instruments.



The logo LOW V.O.C. TRUCK identifies all low-emission products for industrial vehicles that meet the regulatory requirements on atmospheric emissions 2004/42/EC.

The technological offer

LECHSYS HYDRO IS A POLYVALENT SYSTEM COMPOSED BY

48 TINTERS

The products are formulated to ensure a minimum environmental impact thanks to a low VOC content and the absence of heavy metals. In addition, the high pigment concentration allows a lower material consumption.

The stirring machine contains 22 "standard" and 26 "optional" tinters, as shown in the following table:

YD000 INTENSE WHITE	●		YD078 LIME GREEN		●
YD007 RADIANT YELLOW		●	YD081 DEEP BLACK	●	
YD008 SUN YELLOW	●		YD086 BLUE BLACK	●	
YD010 COOL YELLOW	●		YD214 TRANSOXIDE YELLOW		●
YD013 OXIDE YELLOW	●		YD221 BRILLIANT ORANGE		●
YD015 WARM YELLOW	●		YD236 TRANSOXIDE RED		●
YD016 BRILLIANT YELLOW	●		YD256 MINERAL RED		●
YD018 SUPER YELLOW	●		YD390 EXTRA FINE SILVER		●
YD022 WARM ORANGE	●		YD392 MEDIUM LENS SILVER		●
YD023 BRILLIANT ORANGE	●		YD393 SILVER MET	●	
YD024 DEEP ORANGE	●		YD396 COARSE LENS SILVER		●
YD025 LIGHT ORANGE	●		YD397 COARSE SILVER		●
YD038 DARK OXIDE RED	●		YD399 FINE LENS SILVER		●
YD043 RUBY RED		●	YD422 REFLEX PEARL GOLD		●
YD048 BRIGHT RED	●		YD428 PEARL BRIGHT GOLD		●
YD049 CARMINE RED	●		YD431 PEARL ORANGE		●
YD052 BORDEAUX	●		YD442 PEARL RED		●
YD056 MAGENTA		●	YD452 REFLEX PEARL VIOLET		●
YD059 VIOLET	●		YD462 REFLEX PEARL BLUE		●
YD061 INDO BLUE		●	YD472 REFLEX PEARL GREEN		●
YD063 SAPPHIRE BLUE	●		YD485 FINE PEARL WHITE		●
YD068 PHTALO BLUE	●		YD487 MEDIUM PEARL WHITE		●
YD069 FROST BLUE		●	YD501 OPAL WHITE		●
YD072 PHTALO GREEN	●		YD511 MILITARY BLACK		●

● Standard ● Optional



3 NEW TINTERS HAVE BEEN INCORPORATED INTO THE SYSTEM

The Lechsys Hydro System has been integrated with the addition of three new tinters:

YD018 LECHSYS HYDRO SUPER YELLOW
YD022 LECHSYS HYDRO WARM ORANGE
YD024 LECHSYS HYDRO DEEP ORANGE

with the aim of expanding the range of colours to formulate. Specifically, these new tinters will complement the colour range of yellows, oranges and reds, to better satisfy an increasingly attentive and demanding market in terms of colour and opacity.

19 RESINS (BINDERS)

They are prepared in different can sizes and packaged in pre-dosed cans to obtain finished products of 4 or 16 litres. It is possible to create anticorrosive and coloured **primers** and **primer fillers**, different types of one- and two-pack **finishes**, with different technical performances and different aesthetic effects: gloss, matt, satin and structured.



To expand the range of colours

ADDITIVES WITH TEXTURE EFFECTS

Three new additives with different grain sizes have been incorporated into the range:

YD218 HYDROPLAST FINE TEXTURE ADDITIVE
YD219 HYDROPLAST MEDIUM TEXTURE ADDITIVE
YD220 HYDROPLAST MAGNUM TEXTURE ADDITIVE

They are recommended to create effect enamels and to enhance the haptic experience of contact with surfaces, which is today an increasingly fundamental component in the world of Habitat and Design. The additives also increase scratch resistance and chemical resistance to cleaning while maintaining a uniform gloss.

2 SUPPLEMENTARY ADDITIVES

YD999 MIX BASE to improve opacity

YD291 MATT ADDITIVE to reduce the gloss level

1K BINDERS

LH101 (YD101) HYDROPRIMER 1K HP

Primer with good anticorrosive properties applicable both in W/W and D/D painting processes. Used for painting metal products in general. Compliance with Law Decree N° 161 of 27/03/2006 (Category D) allows its application also in outdoor environments.

LH114 (YD114) HYDROLACK 1K RAPID

Fast drying enamel, excellent gloss, easy application and resistance to atmospheric agents.

LH130 (YD130) HYDROCRYL 1K GRIP PLUS

Finish with direct adhesion to metals. Good resistance to atmospheric agents, fair resistance to corrosion, high coverage and opacity. Compliance with Law Decree N° 161 of 27/03/2006 (Category I) allows its application also in outdoor environments.

LH157 (YD157) HYDROCRYL 1K

Quick drying acrylic enamel. Direct adhesion to steel, cast iron, pre-existing primer fillers and coatings. Good aesthetic appearance and good mechanical characteristics. Compliance with Law Decree N° 161 of 27/03/2006 (Category D) allows its application also in outdoor environments.

LH158 (YD158) HYDROCRYL 1K MATT

Quick drying acrylic enamel for matt finishes. Direct adhesion to steel, cast iron, pre-existing primer fillers and coatings. Good aesthetic appearance and good mechanical characteristics. Compliance with Law Decree N° 161 of 27/03/2006 (Category D) allows its application also in outdoor environments.

LH903 (YD903) HYDROCOAT MOTIVE

Matt basecoat for two-coat pastel and effect paints. Easy application even on large surfaces, homogeneous appearance and excellent adhesion.

2K BINDERS

LH142 (YD142) HYDROCRYL 2K MATT

Finishing acrylic enamel with a uniform and velvety satin appearance. Excellent resistance to abrasion, light and atmospheric agents. Easy application and high coverage.

LH143 (YD143) HYDROCRYL 2K GRIP

Gloss acrylic enamel with direct adhesion to metals and other substrates, excellent resistance to light and atmospheric agents. Good aesthetic appearance and brilliance. Ideal for high productivity one-coat painting processes.

LH144 (YD144) HYDROCRYL 2K PREMIUM

Polyurethane enamel with high aesthetic appearance. Excellent resistance to atmospheric agents, high coverage and opacity, excellent mechanical characteristics.

LH152 (YD152) HYDROCRYL 2K GRIP MATT

Matt finish with direct adhesion to metal. High resistance to atmospheric agents and easy application.

LH155 (YD155) HYDROCRYL 2K

2: 1 gloss acrylic enamel with high aesthetic appearance. High resistance to light and atmospheric agents, excellent coverage and opacity.

LH179 (YD179) HYDROPOX 2K STR

Epoxy finish with an embossed effect that has high resistance to chemical agents and abrasion. Excellent adhesion to all metals and FGRP. High filling, coverage and opacity.

LH203 (YD203) HYDROPLAST GLOSS and LH202 (YD202) HYDROPLAST SEMI MATT

Gloss enamel with direct adhesion on PC and PVC. Good resistance to scratching and abrasion, good mechanical characteristics, high resistance to light and atmospheric agents. Ideal for painting components from the car, motorcycle, habitat and sporting sectors. Compliance with Law Decree N° 161 of 27/03/2006 (Category D) allows its application even in outdoor environments.

LH204 (YD204) HYDROPLAST MATT and LH533 (YD533) HYDROPLAST MATT TXT and LH202 (YD202) HYDROPLAST SEMI MATT

Matt enamel with direct adhesion to ABS, PC and PVC. Good resistance to scratching and abrasion, good mechanical characteristics, high resistance to light and atmospheric agents. Ideal for painting components from the car, motorcycle, habitat and sporting sectors. Compliance with Law Decree N° 161 of 27/03/2006 (Category D) allows its application even in outdoor environments.

LH441 (YD441) HYDROCRYL 2K AC GRIP PLUS 10

Matt-looking enamel with direct adhesion to metals and excellent resistance in salt spray (250h).

LH446 (YD446) HYDROCRYL 2K AC GRIP PLUS 50

Semi-matt enamel with direct adhesion to metals and excellent resistance in salt spray (250h).

LH925 (YD925) HYDROCOAT HELMET MET

Matt basecoat for effect finishes to be overcoated with traditional or UV clearcoats. Easy application, fast drying and excellent light fastness; it can be decorated with decals. Ideal for painting helmets.

LH927 (YD927) HYDROCOAT HELMET PAST

Exclusive matt basecoat for pastel finishes to be overcoated with traditional or UV clearcoats. Easy application, fast drying and excellent light fastness; it can be decorated with decals. Ideal for painting helmets.

LH943 (YD943) HYDROPLAST SEMI GLOSSY WS e LH534 (YD534) HYDROPLAST SEMI GLOSSY WS TXT

Semi-gloss enamel with direct adhesion to ABS, PC / ABS and rigid PVC plastic substrates. Suitable for painting medium- / large-sized items, such as window frames or furniture items. High resistance to scratching and abrasion and excellent resistance to atmospheric agents. It allows the creation of pastel and effect finishes.

LH945 (YD945) HYDROCOAT GRIP

Matt basecoat with direct adhesion to non-ferrous substrates for two-coat finishes. Easy application, homogeneous appearance and excellent adhesion to aluminium and its alloys, zamak and epoxy primers.

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The system is integrated with clearcoats, ready-to-use primers and primer fillers, with different characteristics, chemical-physical properties and technical performances.

PRIMERS AND PRIMER FILLERS

Y104001 HYDROPUR 2K FILLER OFF WHITE

Two-pack primer filler for industrial vehicles and industry in general.

Y106001 HYDROPUR SEALER

Two-pack sealer for D/D and W/W painting processes without anticorrosive power. For truck refinish and industry in general.

Y109001 HYDROPUR PRIMER PREMIUM WHITE

Two-pack polyurethane anticorrosive primer for truck refinish and industry in general.

Y175001 HYDROPOX PRIMER R-EC

Two-pack anticorrosive primer with high anticorrosive power with low environmental impact. For truck refinish and industry in general.

Y175100 HYDROPOX PRIMER HCR

Two-pack anticorrosive primer with very high anticorrosive power with low environmental impact. For truck refinish and industry in general.

CLEARCOATS

YD850 MOTIVE WB CLEARCOAT

Two-pack clearcoat for low environmental impact painting processes. To be used as a finish for industrial and vehicle painting.

YD852 ANTIGRAFFITI HYDRO CLEARCOAT

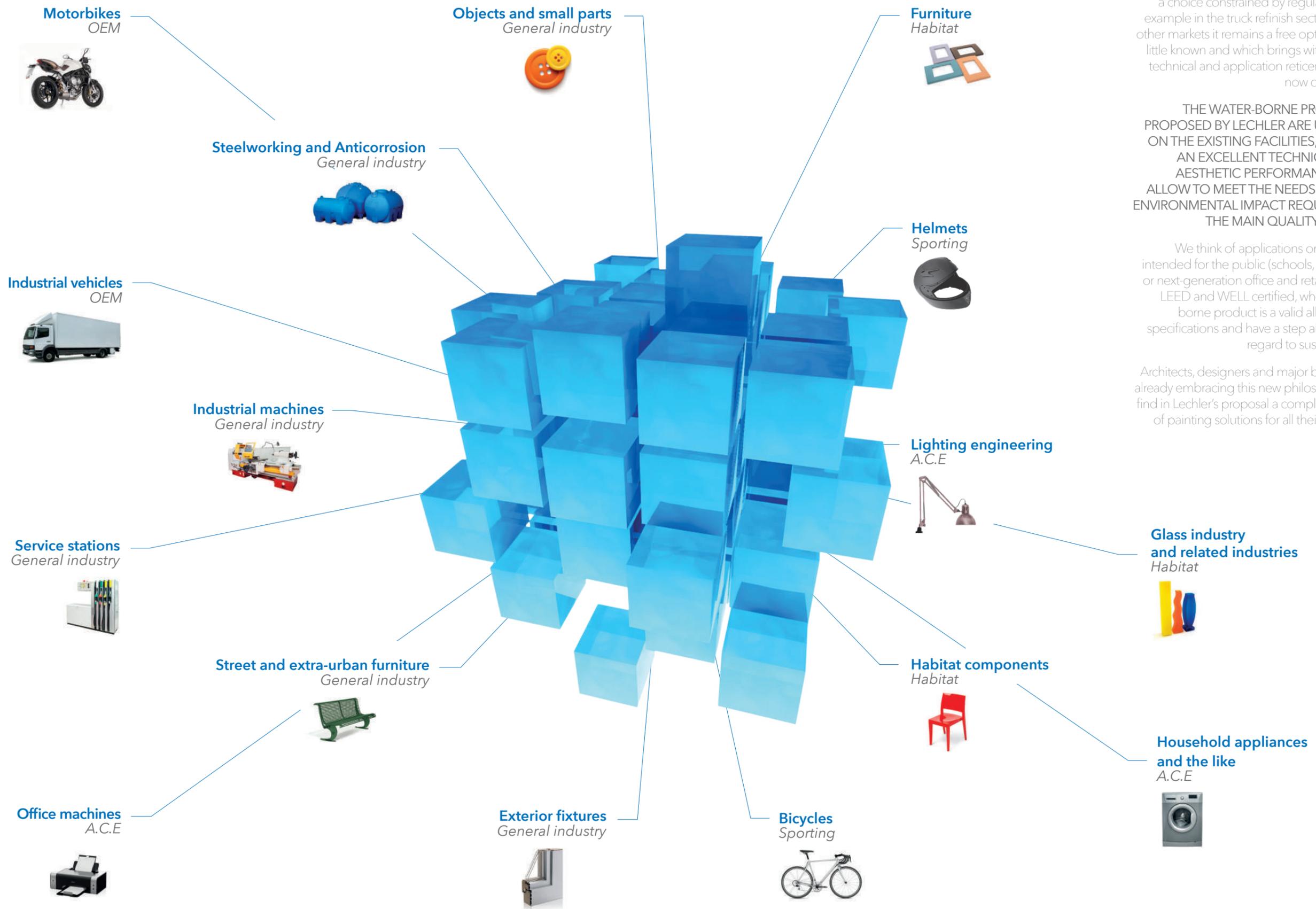
Two-pack gloss acrylic clearcoat with anti-graffiti performance with low environmental impact. Ideal for the protection of public transport and street furniture. Resistance tests carried out in compliance with the UNI 11246 standard.

YD853 ANTIGRAFFITI SEMI-GLOSS HYDRO CLEARCOAT

Semi-gloss two-pack acrylic clearcoat with anti-graffiti performance and low environmental impact. Ideal for the protection of means of transport or public manufactured items from soiling. Resistance tests carried out in compliance with the UNI 11246 standard.

YD855 MOTIVE WB 20 GLOSS CLEARCOAT

Two-pack matt acrylic clearcoat for finishes in the interior habitat, sporting and industry sectors in general.



In some sectors, water-borne product is a choice constrained by regulations (for example in the truck refinish sector), but in other markets it remains a free option, often little known and which brings with it some technical and application reticence that is now overcome.

THE WATER-BORNE PRODUCTS PROPOSED BY LECHLER ARE USEABLE ON THE EXISTING FACILITIES, ENSURE AN EXCELLENT TECHNICAL AND AESTHETIC PERFORMANCE AND ALLOW TO MEET THE NEEDS OF LOW ENVIRONMENTAL IMPACT REQUIRED BY THE MAIN QUALITY LABELS.

We think of applications on furniture intended for the public (schools, hospitals) or next-generation office and retail spaces, LEED and WELL certified, where water-borne product is a valid ally to meet specifications and have a step ahead with regard to sustainability.

Architects, designers and major brands are already embracing this new philosophy and find in Lechler's proposal a complete range of painting solutions for all their projects.

OEM (Original Equipment Manufacturer) | A.C.E (Appliances and Consumer Electronics)

ALL AROUND THE TRUCK



FIND OUT MORE

FOR THE INDUSTRIAL VEHICLE SECTOR, LECHLER TECH PROPOSES A SIMPLE AND PERFORMING PAINTING SOLUTION, THAT COMPLIES WITH THE 2004/42 / EC REGULATION IN TERMS OF EMISSION OF VOLATILE ORGANIC SUBSTANCES AND IS VALIDATED BY LABORATORY TESTS CONDUCTED BY ISO 9001: 2015 QUALITY PROCESS.



RECOMMENDED PAINTING PROCESS:

Y175100
HYDROPOX
PRIMER HCR
LH155 (YD155)
HYDROCRYL 2K

There are about 5.000 colours with excellent aesthetic quality made with the use of high-resistance pigments. The painting process is certified according to ISO 12944 which guarantees a very high resistance against corrosion, recommended for use in critical environments.



HELP AGAINST CORROSION

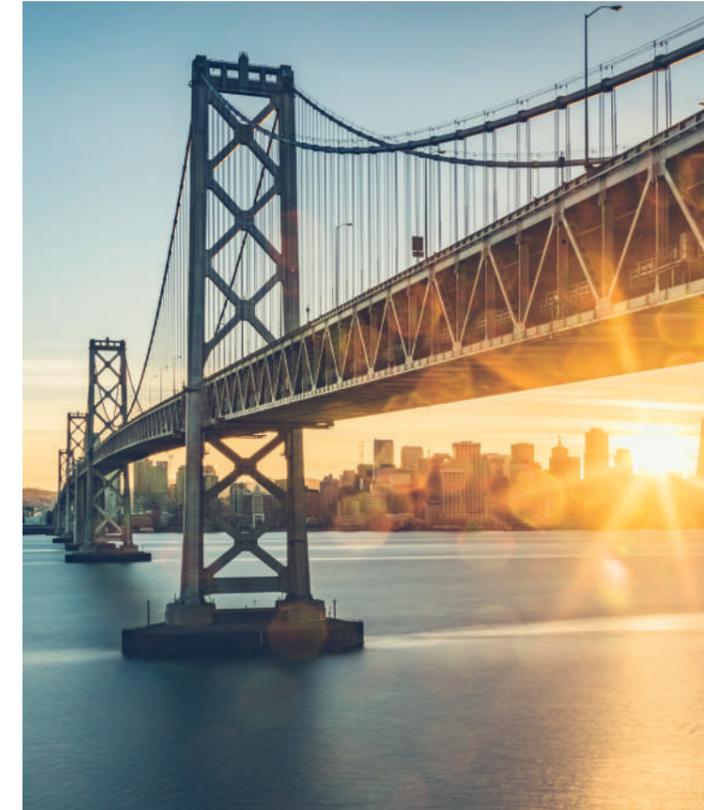


FIND OUT MORE

THE SEVERE WORKING CONDITIONS TO WHICH COMMERCIAL VEHICLES ARE SUBJECT REQUIRE PAINTING PROCESSES HIGHLY RESISTANT TO THE MOST VARIOUS ENVIRONMENTAL CONDITIONS.

CORROSION IS IN FACT ONE OF THE PHENOMENA WHICH MEANS OF TRANSPORT UNDERGO AND IT IS THE NATURAL RESULT OF METAL DETERIORATION, DUE TO ITS CHEMICAL REACTION WITH THE SURROUNDING ENVIRONMENT.

Any unprotected metal product or structure exposed to air, water or continuous contact with the ground will corrode and consequently require maintenance or restoration. To avoid corrosion damage, one of the most common methods of protection is the painting process. The complete water-borne painting process that Lechler Tech has developed to guarantee to industrial vehicles a high resistance to corrosion, can therefore also be brought to the General Industry.



RECOMMENDED PAINTING PROCESS:

Y175100
HYDROPOX
PRIMER HCR
LH155 (YD155)
HYDROCRYL 2K

The painting process, called **Optifan**, has been tested according to the international standard ISO 12944 which offers the user clear parameters of corrosion resistance, through which it is possible to choose the most suitable paint and schedule proper maintenance over time.

A SHIELD AGAINST INCIVILITY



FIND OUT MORE

THE PHENOMENON OF GRAFFITI, WIDESPREAD IN EVERY PART OF THE WORLD, IS A PROBLEM FOR BODIES AND COMPANIES THAT MUST PROTECT THE SURFACES OF MEANS OF TRANSPORT (BUSES, TRAIN CARRIAGES, TRAMS, ETC.) AND PUBLIC FURNITURE. LECHLER TECH OFFERS A PROTECTIVE SOLUTION, IN GLOSS AND MATT VERSIONS, WITH LOW ENVIRONMENTAL IMPACT.



THE OFFER INCLUDES:

YD852 ANTIGRAFFITI HYDRO CLEARCOAT

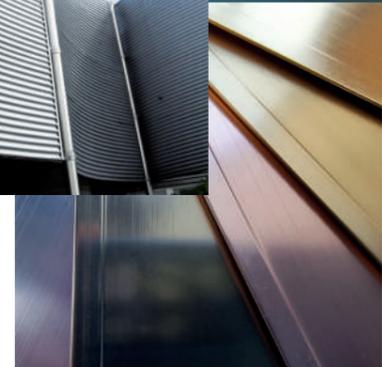
YD853 ANTIGRAFFITI SEMI GLOSSY HYDRO CLEARCOAT

This range of finishes prevents inks from penetrating the surface, thus allowing easy removal of writing and drawings made with aerosol sprays and permanent markers. Both products comply with the UNI 11246 standard which requires at least 10 soiling cycles and subsequent cleaning without altering the brilliance and chemical / physical characteristics of the original film.

PERFECT CLADDING MAINTENANCE



FIND OUT MORE



FOR YEARS LECHLER TECH HAS BEEN OFFERING IN ITS CATALOGUE SOLVENT-BASED PAINTING SOLUTIONS FOR THE MAINTENANCE AND RESTORATION OF METAL CLADDINGS IN INDUSTRIAL BUILDINGS.

RECOMMENDED PRODUCTS:

YD157 HYDROCRYL 1K

YD158 HYDROCRYL 1K MATT

They are one-pack, very quickly air-drying acrylic enamels, accompanied by YD101 HYDROPRIMER 1K HP, a specific one-pack anticorrosive primer that allows you to carry out the complete painting process.

The rewarding features are easy application, good aesthetic appearance, excellent mechanical characteristics, fast air drying, direct adhesion to steel, cast iron and pre-existing coatings and of course their low levels of V.O.C.

With the entry into force of the additional decree of 2010 of Directive 2004/42 / EC concerning the regulation of VOC emissions, Lechler Tech has decided to develop a range of water-borne products that meet these new regulatory requirements.

PVC AND WATER: A WINNING SYNERGY



PVC IS ONE OF THE MOST POPULAR PLASTIC MATERIALS IN THE WORLD AND THANKS TO ITS VERSATILITY IT IS WIDELY USED IN DIFFERENT SECTORS: CONSTRUCTION, PACKAGING, FURNITURE ACCESSORIES, FASHION ACCESSORIES AND MUCH MORE.

ONE OF THE MOST USED AND HIGHLY DEVELOPED SECTORS IS THE WORLD OF FIXTURES FOR WINDOWS, DOORS, SHUTTERS, BARRIERS AND FENCES.



The treatment of PVC with paints improves the durability of the manufactured item over time, as well as enhances its aesthetics with a rich range of colours and effects. Lechler Tech water-borne solutions are manifold.



THE RANGE OF THE DEDICATED PRODUCTS:

- LH202 (YD202) HYDROPLAST SEMI MATT *
- LH203 (YD203) HYDROPLAST GLOSS
- LH204 (YD204) HYDROPLAST MATT
- LH533 (YD533) HYDROPLAST MATT TXT **
- LH282 (YD282) HYDROFRAME COAT PVC FLEX
- LH532 (YD532) HYDROFRAME COAT PVC FLEX TXT **
- LH943 (YD943) HYDROPLAST SEMI GLOSSY WS
- LH534 (YD534) HYDROPLAST SEMI GLOSSY WS TXT **

The wide range of products allows you to create quick and cost-effective painting processes with direct adhesion and a high-protection film that protects the manufactured item against atmospheric agents (such as light, humidity and smog) as well as an aesthetic result that meets the high demands of the sector. The finish LH282 (YD282) HYDROFRAME COAT PVC FLEX is certified QB "Quality in Building", which guarantees product quality by monitoring the entire production chain.

*Virtual binder with intermediate gloss level between YD203 and YD204
 ** Virtual texture versions identifiable in MAP in the "texture manufacturer"



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SYSTEM MANAGEMENT IS PERFORMED THROUGH SPECIFIC EQUIPMENT AND SOFTWARE, WHICH GUIDE THE OPERATOR IN A QUICK AND INTUITIVE MANNER, PROVIDING ALL NECESSARY INFORMATION FOR THE CORRECT DEFINITION OF THE PRODUCTION PROCESS.



Stirring machine and workstation

The complete workstation is composed of a set of equipment and tools that transform the distributor into a manufacturer, allowing him to create and manage colours in complete autonomy.

Among the main equipment we find the stirring machine, the spectrophotometer (also in portable version) and the PC, equipped with the relevant software that can always be updated remotely.

Lechler MAP

The Lechler MAP software intuitively guides the operator through various functions:

- Easy and guided search for colour formulas, including customised formulas
- Creation and archiving of workbooks for client, operator and work order
- Consumption and inventory management of paints
- Guide to the preparation of the ready-for-use product in connection with an electronic scale
- Display and print of labels, technical and safety information



Color Reader

Color Reader is a portable reader for the referencing of solid colours, directly on the surface of objects. Thanks to its multiple functions it can satisfy both those applying the colour and those choosing it.



Master Chroma Advanced

A selection of over 3.000 pastel colours divided into chromatic tones and sorted by saturation and brightness. All these references are available with the following binders: YD155 HYDROCRYL 2K, YD143 HYDROCRYL 2K GRIP, YD144 HYDROCRYL 2K PREMIUM, YD152 HYDROCRYL 2K GRIP MATT, YD142 HYDROCRYL 2K MATT and YD927 HYDROCOAT HELMET PAST.



Lechsya Hydro colour fan

It is composed of 23 tinters that include all pastel colours. The colour fan shows the tinters in full tone and shaded tones, to easily check the different nuances of colour.



Architectural X

It's a precious box containing 3 new colour fans dedicated to the world of the Habitat Building and formulated with water-borne products, to move closer to the demands of a sector attentive to sustainability. A total of about 150 proposals divided between pastel, material and metallic effect finishes, which are the new trend in the sector.



Color Design Habitat Building

The Color Design project combines technological development with culture: a harmony of colours and effects in the world of the Habitat Building with thoroughly water-borne finishes. The collection is dedicated to the decoration of plastic architectural elements such as facades and windows. It consists of a detailed guide that explains the concept of the collection, a colour fan containing about 50 colour proposals designed for this market, a set of nine painted hemispheres to touch effects and finishes.



Evoeffects: Hydro effects collection

The ideal tool to propose itself in the Habitat Interior sector and in all areas where the search for aesthetics and industrial design is at the forefront. A box with an attractive design containing 500 effect finishes, including pearl and metallic effects, made with the top-of-the-range enamel YD943 Hydroplast Semi Glossy WS, to guarantee high levels of quality and resistance.



Training and assistance at the service of the user

THE SERVICES THAT LECHLER MAKES AVAILABLE TO USERS OF THE SYSTEM, THROUGH THE STRUCTURES OF THE CENTRE FOR EXCELLENCE, HAVE THE OBJECTIVE OF SUPPORTING THE CUSTOMER IN THE CORRECT USE OF THE PRODUCTS WITH PROFESSIONALISM AND COMPETENCE.

Centre for Excellence

The structure is available to customers with high-level training and update courses, which offer the right balance between theory and practice, and are designed to be effective ensuring the best results in the shortest possible time.

Technical Assistance

Telephone and "in the field" assistance of specialised technicians able to support the user in identifying the best cycle or product for each work order, installing software or managing the equipment supplied.

Colour Call Centre

A direct line with our specialised operators able to meet every request related to the world of colour.

Website

The Lechler Tech website <http://industry.lechler.eu> provides all useful information for users and professionals in the industrial painting market. It illustrates the Value Proposition: technologies, products, projects and services useful for the operations of the painters. The online catalogue allows you to search for all Lechler Tech products and systems by name, code and type. For each product there is a description, the technical and safety data sheet, any further information and the related marketing information material.

THE LECHLER TECH BRAND IS THE PROPOSAL FOR INDUSTRIAL COMPANIES THAT, THROUGH THE PAINTING OF THEIR MANUFACTURED ITEMS, WANT TO ADD A COMPETITIVE VALUE TO THEIR PRODUCT ON THE MARKET, BOTH IN THE AESTHETIC FIELD AND IN THE PERFORMANCE OF RESISTANCE AND DURABILITY, THROUGH A CONTINUOUS SEARCH FOR NEW SOLUTIONS.

PRODUCTION AND PAINTING OF PC HELMETS



INITIAL SITUATION

The customer used solvent-based products with a daily consumption of about 300 kg which correspond to about 150 kg of VOC emissions.

REASON FOR REPLACEMENT

The authorisation to open a new plant was dependent on the drastic reduction of VOC emissions.

LECHLER PROPOSAL

Replacement of the solvent-based Matt Bases with water-borne products from the Hydrocoat Helmet family derived from Binders YD925 and YD927, with subsequent application of decals and completion of the painting process with gloss clearcoat YD850 Motive WB Clearcoat.

RESULT

Excellent aesthetic appearance for both pastel and metallic basecoats. Good adhesion of decals and clearcoats.

CURRENT SITUATION

The current production of helmets involves the consumption of about 50 kg of water-borne basecoats per day with a VOC emission of about 10 kg, equal to a reduction of 70% of solvent emitted daily.

PAINTING OF ITEMS FOR MOTORCYCLES



INITIAL SITUATION

The customer, a third-party painter, used solvent-based products on aluminium substrates with a daily consumption of about 50 kg of basecoats, which correspond to 32.5 kg of solvents emitted into the atmosphere.

REASON FOR REPLACEMENT

Need to reduce VOC emissions and the possibility of guaranteeing an added value to painted manufactured items through the use of water-borne products.

LECHLER PROPOSAL

Matt Basecoat LH945 Hydrocoat Motive overcoated with YD850 Motive WB Clearcoat.

RESULT

The painting process was approved, the basecoats and finishes gave excellent aesthetic results, adhesion and mechanical performance.

CURRENT SITUATION

The customer proposed to his client painting processes with LECHLER TECH products to be approved and included in his specifications to paint motorcycles of leading brands in the sector.

CONSTRUCTION AND PAINTING OF PUMPS



INITIAL SITUATION

The customer used a solvent-based product with problems of excessive solvent emissions in the air.

REASON FOR REPLACEMENT

Need to reduce VOC emissions, eliminate flammable products from work departments, request for greater coverage when applying the products.

LECHLER PROPOSAL

Finish from the Binder YD143 Hydrocyl 2K Grip with direct application to the substrate.

RESULT

Excellent aesthetic appearance, brilliance and mechanical performance. The coverage of the product was increased by more than 30%.

CURRENT SITUATION

About 50% of production will switch to water-borne products (with a VOC reduction of 80%) in the next months.

PRODUCTION AND PAINTING OF CLADDINGS FOR PP FACADES



INITIAL SITUATION

The customer used a transparent solvent-based primer to ensure the adhesion of the water-borne finish on PP claddings subject to flame pretreatment.

REASON FOR REPLACEMENT

Our proposal (customised on the customer's specific substrate) has allowed us to identify a one-coat painting process, which after flame treatment ensures the direct adhesion of the enamel with a significant reduction in production times.

LECHLER PROPOSAL

Flame pretreatment. Pastel finish from the Binder YD142 Hydrocyl 2K Matt with high resistance to light and weathering.

RESULT

Significant reduction of painting process times and above all elimination of the step with solvent-based primer.

CURRENT SITUATION

The customer uses about 150 kg. of finish from the Binder YD142 per month.

PAINTING OF PLASTIC HOUSEHOLD ITEMS



INITIAL SITUATION

Painting of plastic items in the Habitat sector with solvent-based products with various aesthetic effects.

REASON FOR REPLACEMENT

Critical problems of plastic due to solvent aggression with high percentages of waste pieces.

LECHLER PROPOSAL

2K basecoat LH925 Hydrocoat Helmet Met. with direct application to the PC substrate, overcoated with the matt clearcoat YD855 Motive WB20 Gloss Clearcoat.

RESULT

All the problems of the substrate absorption were definitively solved and the coverage with less waste of material was improved.

CURRENT SITUATION

The entire production switched to water-borne LECHLER TECH basecoats and matt water-borne clearcoat.

PRODUCTION AND PAINTING OF SWITCH COVER PLATES



INITIAL SITUATION

Use of finishes with direct adhesion for pastel, metallic and pearl solvent-based colours on plastic plates.

REASON FOR REPLACEMENT

The company strategically chose to gradually convert solvent-based painting process into water-borne basecoats and to anticipate problems related to environmental regulations.

LECHLER PROPOSAL

Replacing solvent-based enamels with our water-borne finish LH943 Hydroplast Semi Glossy WS with direct adhesion to PC / ABS which allowed to drastically reduce solvent emissions.

RESULT

The excellent aesthetic and performance results as well as the best coverage produced an acceleration of the project of conversion to water-borne products with a dedicated painting line.

CURRENT SITUATION

The comprehensive and analytical cost-benefit evaluation deriving from the introduction of water-borne paints has led to significant overall savings.

PAINTING OF PLASTIC ITEMS FOR FURNITURE



INITIAL SITUATION

Production of ABS lamps painted with solvent-based products with direct adhesion.

REASON FOR REPLACEMENT

Critical problems of plastics due to solvent aggression with high percentages of waste of manufactured items.

LECHLER PROPOSAL

LH204 Hydroplast Matt finish with the addition of YD219 Hydroplast Medium Texture Additive to give the manufactured item not only the required matt finish, but also an anti-slip aesthetic appearance that allows to drastically reduce waste.

RESULT

All problems of the manufactured items were definitely solved with reduction of waste.

CURRENT SITUATION

The production of manufactured items with plastic support is completed by LECHLER TECH finishes deriving from the Binder YD204 Hydroplast Matt with the addition of the Medium Texture Additive YD219.

PAINTING OF MEANS OF URBAN TRANSPORT



INITIAL SITUATION

Painting with solvent-based products in body shops that are not thoroughly equipped and suitable.

REASON FOR REPLACEMENT

The company is located in the centre of a big city and the switch to low environmental impact products for safety reasons and environmental emissions is an absolute need.

LECHLER PROPOSAL

Painting process with application of the Anticorrosive Primer Y175100 Hydropox Primer HCR and subsequent overapplying of pastel finishes from the Binder YD155 Hydrocyl 2K or metallic finishes obtained with the Matt Basecoat

LH903 Hydrocoat Motive overcoated with the gloss clearcoat YD852 Antigrffiti Hydro Clearcoat or the semi-gloss version YD853 Antigrffiti Semi - Gloss Hydro Clearcoat.

RESULT

Solvent emissions were drastically reduced and a painting process with high resistance to corrosion was introduced; furthermore, thanks to the use of an Antigrffiti clearcoat, a much higher life time of the vehicles than the current proposal is guaranteed.

CURRENT SITUATION

The customer uses about 8.000 litres of water-borne products per year.

PRODUCTION OF MANUFACTURED ITEMS FOR PVC WINDOW AND DOOR FRAMES AND FIXTURES



INITIAL SITUATION

Painting with solvent-based products.

REASON FOR REPLACEMENT

Study and evaluation of a new line of PVC window frames where the designer responsible for the project suggested a customisation of colours and finishes by painting the PVC architectural elements in Indoor and Outdoor environments, such as fixtures, doors and panels.

LECHLER PROPOSAL

Finishes in pastel colours from LH282 Hydroframe Coat PVC Flex with direct adhesion to PVC, excellent outdoor resistance and QB certification (reference brand for the quality, high performance and reliability of the products used in the production and construction processes).

RESULT

The exclusive use of our product was included in the project specifications for the added value given by the use of a "certified" product with low environmental impact.

CURRENT SITUATION

All production is painted with LECHLER TECH finishes from the Binder YD282 Hydroframe Coat PVC Flex.

PRODUCTION AND PAINTING OF PLASTIC ROOF PANELS



INITIAL SITUATION

Production of embossed PMMA articles that were assigned to external companies for the painting.

REASON FOR REPLACEMENT

Conversion of the production with internal painting. The authorisation to open a new production area was dependent on the drastic reduction of emissions into the atmosphere.

LECHLER PROPOSAL

Our proposal (customised on the customer's specific substrate) has allowed to identify a one-coat painting process that guarantees direct adhesion of the pastel-coloured finish from the Binder YD142 Hydrocyl 2K Matt.

RESULT

The painted manufactured item has excellent physical and mechanical performance and outside resistance.

CURRENT SITUATION

All production is now painted with LECHLER TECH finishes from the Binder YD142 Hydrocyl 2K Matt.

STEEL MACHINERY PRODUCTION AND PAINTING



INITIAL SITUATION

The customer used matt solvent-based enamels with direct adhesion throughout the production.

REASON FOR REPLACEMENT

Although the customer had no legislative needs, he wanted to consider a possible water-borne solution as he was interested in new technologies with low environmental impact.

LECHLER PROPOSAL

Matt finish from the Binder YD130 Hydrocyl 1K Grip Plus with direct adhesion to steel and high corrosion resistance like the solvent-based products used.

RESULT

Excellent ease of application and the possibility of applying the paint in the plant with no use of active carbon filters.

CURRENT SITUATION

All production is with finishes from the Binder YD130 Hydrocyl 1K Grip Plus.

The market map



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