

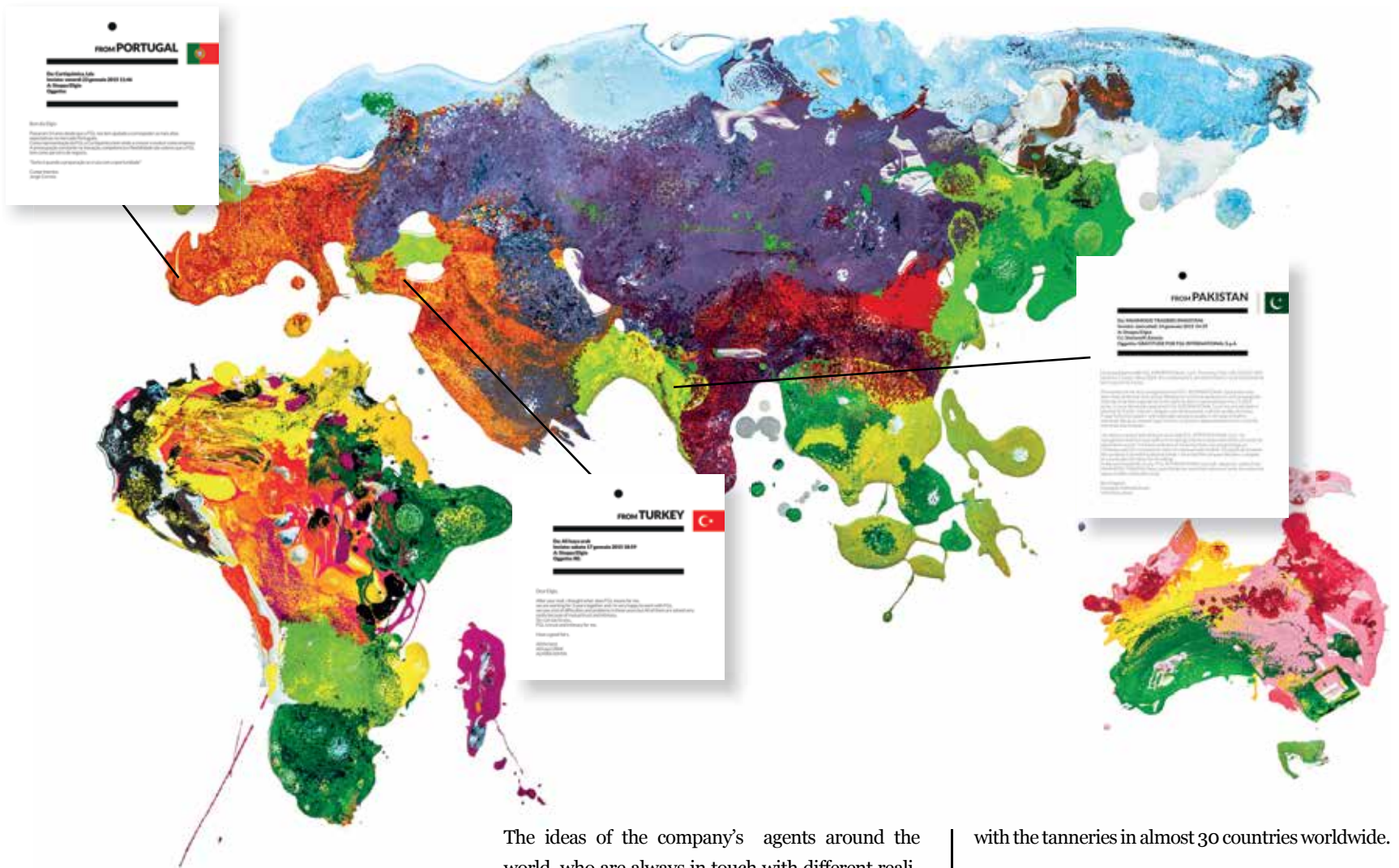


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UNI EN ISO 9001:2008

Your ideas lead us to a brighter future.

The original emails with comments and suggestions from FGL International agents around the world will be shown at FGL International Stand at Lineapelle Milano.



A detail of the painting made for the FGL International stand at Lineapelle Milano.

The ideas of the company's agents around the world, who are always in touch with different realities and needs, are part of FGL International history and development. The main target of the company is to manufacture auxiliary tannery products with high added value. This means a very close cooperation

with the tanneries in almost 30 countries worldwide.

"FGL loves tannery" is the result of its main target: improving the service to the tanning world with customized high technology products. That's why it's so important to listen to the tanneries' voice.



FGL INTERNATIONAL LOVES TANNERY

WWW.FGLINTERNATIONAL.COM

OUR HIGHLY QUALIFIED
DEPARTMENTS
MOVE TO TANNERIES
FOR A DEDICATED
EVERYDAY ON-SITE
SERVICE



International
ITALIAN LEATHER TECHNOLOGY





The “ZERO” line

meets the growing demand for products without formaldehyde and phenols.

The continuous increase of interest in the “health” of the world and then to environmental problems, has led the industrial system to have a greater focus on the “ecological quality” for leathergoods; marks and ecolabel tags like: Oeko – Tex standard, SG mark, ICT ECO – tox guidelines No.1/96, Ecolabel for footwear, have been created for this purpose in addition to many specifications for particular areas such as car furniture or footwear, which include a lot of under control parameters with more or less restrictive values.

Among all the parameters, particular attention must be given to the aspect of formaldehyde in free form, considering its possible presence in leather goods as closely linked to the type of chemicals used in their realization. In manufactured goods, formaldehyde in free form is permitted only within very low limits of 150/50 ppm max according to certain brands (SG mark) and intended use, but even lower values (<25 ppm) are required in foreign markets of automotive trade and footwear, which are related to multinationals.

Formaldehyde may be present in manufactured articles in free form, reversibly or irreversibly bounded, and among the numerous methods developed to detect it the most significant are those that work in the gas phase (AUDI / VW) PV 3925 and that one in the aqueous medium DIN 53315-method HPLC.

Obviously, the greatest effort is up to those who produce and put on the market chemical products for the realization of manufactured articles, combined with an appropriate use by the tanner.

The goal was and undoubtedly is to produce high quality products developing chemistry and advanced techniques that enable to minimize the content of formaldehyde and, where it is possible, to avoid it.

In the past, FGL International, aware of this need and in order to be close to the customer and user requirements, has created:

- Product lines with reduced formaldehyde content, that respect the prescriptive regulations and / or specifications, thanks to selected raw materials derived from industrial plants, which allow to “stripping” the unreacted formaldehyde.

- At the same time, FGL research has led to the realization of a product that can arise when it is not possible to avoid the use of products that contain high formaldehyde values like melamine resins dicianidiamine; Permasol TFR, reacting irreversibly with formaldehyde in free form and creating stable bonds, allows the reduction of the formaldehyde content reaching it to values copiously below the fixed limits.

But this is no longer sufficient to meet the needs of the absence of formaldehyde and phenol.

It has been decided to study retannings, that are alternative to the classical phenolic, melamine and diciani-

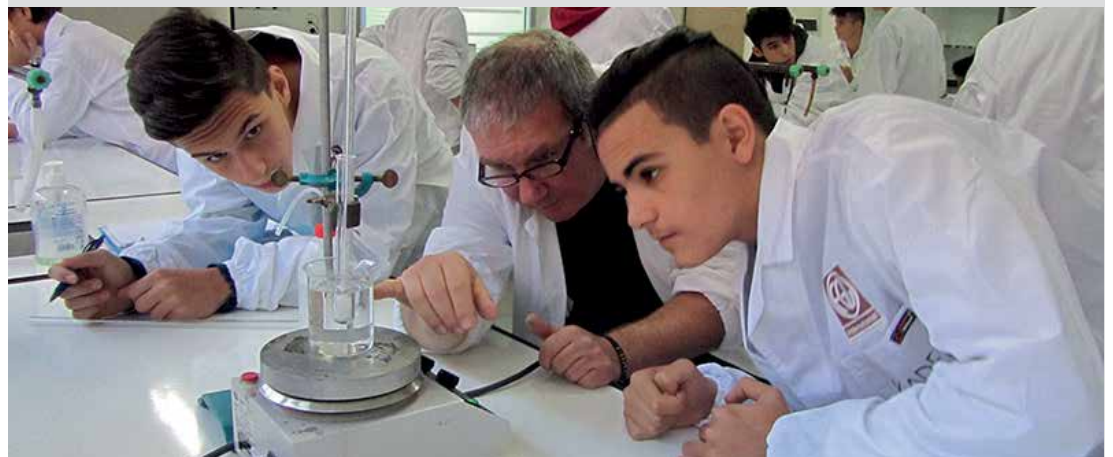
amidici products of condensation, creating synthetic polymers with high cross-linking and retanning power, that are included in the new Line “ZERO”.

These polymers, initially not suitable for tanning application context, have been modified and formulated in order to give them properties of dispersion and fixation to the structure of hides, that are necessary elements for their use. These polymers, thanks to their length and ramification, are able to perform tanning power, but also lubricant power and ensure a lubricating effect. The chemical and physical tests performed on the articles gave results that fully meet the prescriptive requirements.

FGL International supports the laboratories of Istituto Cattaneo San Miniato.

The companies of Lapi Group have always been very much committed to social and educational projects (“Bacco, Tabacco e..Cenere” and “Progetto Giovani”).

A new project started in 2014 with the laboratories of Istituto Cattaneo San Miniato, chemistry and tanning chemistry division, and for the coming years each company of the Lapi Group will supply lab uniforms to all the students of the school.



FGL International

Auxiliary chemical tanning products with a high added value.



FGL International produces auxiliary chemical tanning products with a high added value. A passion for new solutions to improve the tannery sector, the unquestionable technical skills of its professionals, the experience built-up in the field, a highly qualified R&D department and dedicated on-site service are what have led leather manufacturers to choose FGL International as their ideal business partner. FGL International has a flexible production structure composed of qualified professionals designed to operate efficiently on the various international markets. Management of the departments is fully computerised and complies with UNI EN ISO 9001:2008 standards for which the company has been certified since 1999. This system controls every aspect of business from administration to

marketing, research, production, warehouse inventories and customer assistance while also assuring safety in the workplace. Flexibility is the key feature based on 2 basic principles:

- 1) The availability of a fully-stocked warehouse
- 2) The ability to satisfy customer's needs promptly, all over the world



SEE OUR VIDEO PROFILE

Productions plants, warehouse, experimental tannery, Research & Development, our qualified technical support etc.

PRODUCTS

FGL International produces a full range of innovative and effective chemical products for tanning, re-tanning and dyeing.

FGL International's production plants, directly connected with its highly technological R&D labs, have enabled a rationalisation of production processes and flexibility, the key tools for rapidly responding to individual needs. Specialised technicians verify product quality throughout the production process to ensure that the high quality standards provided for are complied with.



AUXILIARIES



DYESTUFFS



MINERAL TANNING AGENT



ENZYMES



OILS AND FATLIQUORS



RESINS



SYNTANS



VEGETABLE TANNINS



SURFACTANTS



SEE PRODUCTS

ZERO
ECO RETANNING PRODUCTS

0% FORMALDEHYDE & PHENOL
100% SOFTNESS & FULLNESS

A blue drum and a white bag of ZERO product are shown in the bottom right corner of the advertisement.

RELEASYS®
REVOLUTIONARY LEATHER SYSTEM.

The revolutionary tanning process, designed and produced by FGL International so as to increase the production efficiency of tanneries whilst safeguarding the environment.

www.releasys.com

A glowing sign with the word 'RELEASYS' in large, illuminated letters is shown at the bottom of the advertisement.

FURTHER INFORMATION, PLEASE CONTACT:
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