

GREEN PRODUCTS



We are the global leader in environmentally-friendly synthetic resins and the first company in the world to obtain an environmental certification **EPD certificate** for liquid epoxy resins – **CHS-EPOXY G** and **Epichlorohydrin G**. Thanks to the new, proprietary and patented technology, we are able to offer a range of environmentally friendly solutions. Our environmentally-friendly, green resins can be used in a variety of applications such as coatings, automotive, wind energy, electro & electronics, civil engineering, etc.

Besides our product line **CHS-EPOXY G** we offer waterborne alkyd **CHS-HYDROSPOL** and waterborne epoxy resins **CHS-EPOXY** and high solid & solvent-free alkyd resins **CHS-ALKYD**. These products meet customers' needs for eco alternatives to conventional materials and provide indisputable environmental benefits. Epichlorohydrin G and product line CHS-EPOXY G is certified by the independent organization – International EPD Consortium (IEC) from Sweden. Our **Environmental Product Declaration (EPD)** represents the first EPD certificate for epoxy resins in the world.



	PRODUCTS	APPLICATION
GREEN EPOXY RESINS	CHS-EPOXY G 520	Casting and tooling, Civil engineering, Coatings, Adhesives, Composites, Encapsulating and potting
	CHS-EPOXY G 525	Casting and tooling, Civil engineering, Coatings, Adhesives, Composites, Encapsulating and potting
	CHS-EPOXY G 530	Casting and tooling, Civil engineering, Coatings, Adhesives, Composites, Encapsulating and potting
GREEN ECH	Epichlorohydrin G	Epoxy resins industry, synthetic glycerine production, intermediate of organic reactions , Pharmacy, wet strength resins



New, clean, state-of-the art production facilities

- Fully integrated epoxy producer manufacturing ECH and BPA
- One of the newest liquid epoxy plants in the world, Japanese technology
- **LER 60kT, 2 lines, 2004/2007**
- **SER 3 lines:** - 2 lines effective capacity 20kT [reactor train capacity 35kT] 2005
- 1 line capacity 8kT – revamped in 2008
- **ECH 25kT, 2007**
- **New alkyd production unit 2009, full alkyd product range**
- **Unsaturated Polyester 35kT, 2 lines, 2006; third reactor 15kT added 2009**

Pioneer in green epoxy resins

START OF NEW EPICHLOROHYDRIN PLANT



On 20 February 2007 we produced the first epichlorohydrin from our new plant. From March 1 we are running at 100% of rated capacity. The plant uses totally new patented Spolek's technology offers significant advantages, in terms of product quality and environmental benefits.

PROPRIETARY

RENEWABLE

CLEAN

GREEN

TECHNOLOGY

 **Basic Raw Materials**

- Natural oils
- Sodium chloride

 **Glycerine** from animal or vegetable oil is a **renewable feedstock**

 **Clean Process**

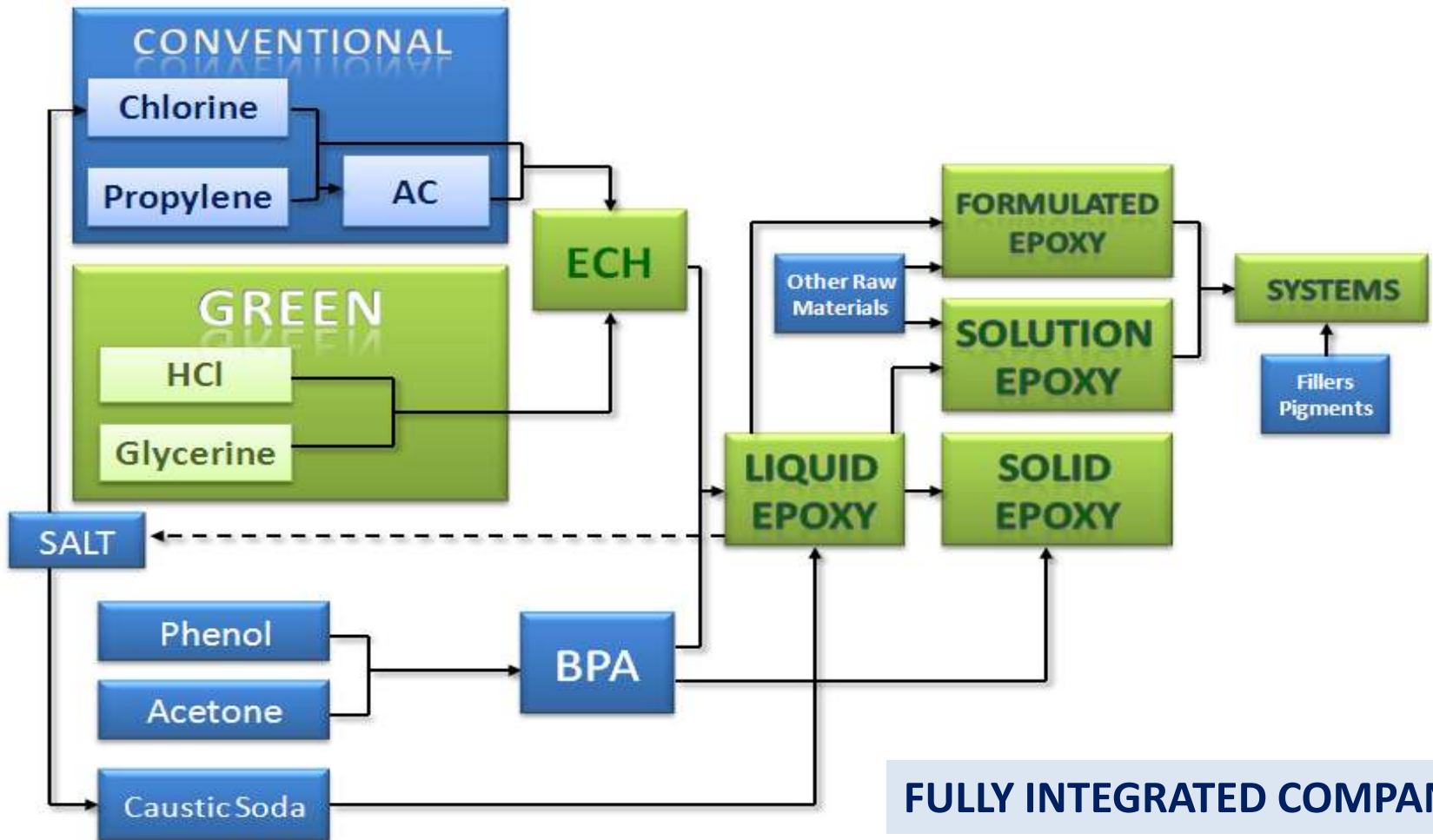
Significantly lower effluent produced per MT ECH than from conventional process based on propylene

 **Green Process**

Significantly lower energy consumption per MT ECH than from conventional process based on propylene



EPOXY RESINS PRODUCTION



FULLY INTEGRATED COMPANY