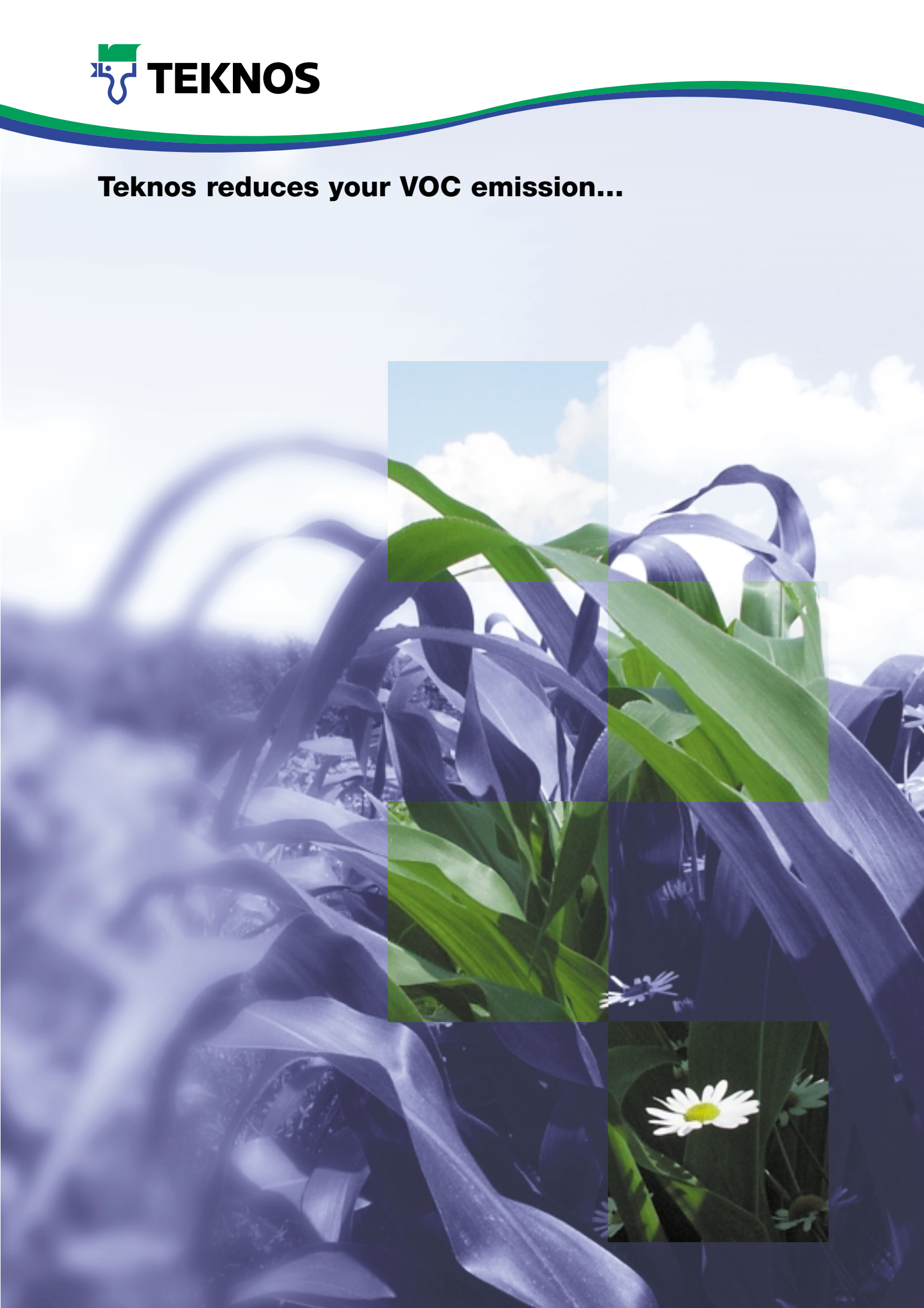


**Teknos reduces your VOC emission...**



## The Teknos Group

Teknos is one of the leading Nordic suppliers of industrial coatings and a major participant in the retail and architectural paint market. Group companies operate directly in the Nordic region, Germany, the United Kingdom, and Poland, and through a well established network of agents and representatives in about twenty other European countries.

Teknos, which has a turnover of around €200m, employs over 1000 staff, over 150 of who work in research and development.

Teknos' strength lies in its sustained investment in research and development, commitment to the highest environmental standards, and a close partnership with its Customers, through the "Teknos Way" program.

*Three core elements lie at the heart of the "Teknos Way" partnership:*

### Innovation

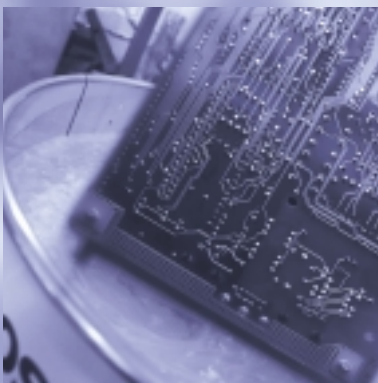
Ever higher product quality and performance standards and new, more demanding, environmental regulations continue to shorten product life cycles. Teknos' concentration on research and development ensures that it meets the market's demand for new coating solutions and services.

### Reliability

Fast and reliable delivery is one of today's key priorities. Teknos' European Supply Chain, modern production facilities and TEKNO MIX<sup>®</sup> system ensure rapid and reliable deliveries throughout Europe.

### Value Added

A key Teknos objective is that its coating solutions and services deliver true Customer value, by offering the optimum balance of price, performance and service.



**Teknos invests vigorously in research and development...**

# Teknos - your partner - on environmental care...

## Teknos & the environment...

Teknos actively works to protect the environment and minimise the impact of its products on our natural surroundings. As part of this commitment, Teknos advises and co-operates with Customers, Suppliers and Authorities on both current and future environmental and safety legislation.

## The EU's directive...

The EU has adopted Directive 1999/13/EF for the purpose of preventing or limiting the impact of emissions of volatile organic compounds (VOCs) on the environment.

This reinforces earlier Directives and places further obligations on producers and users of products containing volatile organic material to reduce atmospheric release.

As with previous legislation, emission of VOCs into the working and external environment can be reduced through abatement measures, such as incineration or condensation, or by implementation of the latest low VOC paint technology combined with appropriate production planning, waste handling and staff training.

*Many Teknos' products result from close co-operation with Customers to match their specific quality standards and application methods.*

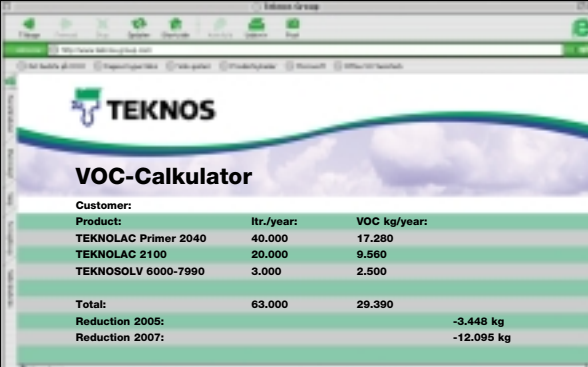
*Teknos has invested heavily in full-scale test centres where the products can be tested and fine-tuned under production line conditions before being put on the market.*

## Which companies will be affected by the VOC directive?

All producers with an annual consumption of more than 5 tonnes of volatile organic compounds will fall within the scope of the EU directive.

Dependant on industry sector, Producers will be required by 2007 to further reduce their total VOC emissions in some cases by substantial amounts.

In addition, by 2005 companies will be required to meet a partial reduction target and must produce a specific action plan to demonstrate how their 2007 target will be met.



Customer:	litr./year:	VOC kg/year:
TEKNOLAC Primer 2040	40.000	17.280
TEKNOLAC 2100	20.000	9.560
TEKNOSOLV 6000-7990	3.000	2.500
<b>Total:</b>	<b>63.000</b>	<b>29.390</b>
<b>Reduction 2005:</b>		<b>-3.448 kg</b>
<b>Reduction 2007:</b>		<b>-12.095 kg</b>



*Teknos' experts use a specially developed VOC calculation program to determine a company's current VOC emissions and to calculate the necessary reduction required by the year 2007.*



*Intensive testing ensures that products fulfil the highest quality norms and standards before Teknos launch them to the market.*



## Teknos develops alternative products that limit your VOC-emissions...

After determining the required VOC reduction, Teknos technical experts work with the company to select alternative paint systems that meet the revised VOC target.

Today, as a result of a long-term research and development, Teknos can offer a series of different coating systems which comply with the new VOC directive and match the quality of traditional paints.

### Traditional treatment with 2-coat system:

Traditional 2-coat systems, consisting of a solvent-based Primer and Topcoat (1- and 2-component), are still used in metal fabrication.

Product name:	Film thickness:	VOC emission:
TEKNOLAC 2040 Primer	80 my	77 g / m <sup>2</sup>
TEKNOLAC 2100	40 my	50 g / m <sup>2</sup>
Solvent (15% for thinning)		13 g / m <sup>2</sup>
<b>Total</b>	<b>120 my</b>	<b>141 g / m<sup>2</sup></b>
TEKNODUR Primer 3420	80 my	93 g / m <sup>2</sup>
TEKNODUR 0190	40 my	38 g / m <sup>2</sup>
Solvent (15% for thinning)		10 g / m <sup>2</sup>
<b>Total</b>	<b>120 my</b>	<b>141 g / m<sup>2</sup></b>

### VOC-reducing 2-coat system:

Through targeted research, Teknos has developed low VOC systems that fully match the quality of traditional 1-component and 2-component solvent-based products.

			VOC-reduction:
I	TEKNOCRYL AQUA 2780 Primer	80 my	12 g / m <sup>2</sup>
	TEKNOCRYL AQUA 2730	40 my	1 g / m <sup>2</sup>
	<b>Total</b>	<b>120 my</b>	<b>13 g / m<sup>2</sup></b>
			<b>- 91%</b>
II	TEKNOPOX AQUA Primer 3	80 my	7 g / m <sup>2</sup>
	TEKNODUR AQUA 3390	40 my	9 g / m <sup>2</sup>
	<b>Total</b>	<b>120 my</b>	<b>16 g / m<sup>2</sup></b>
			<b>- 89%</b>
III	TEKNOPOX AQUA Primer 3	80 my	7 g / m <sup>2</sup>
	TEKNOPOX AQUA 390	40 my	2 g / m <sup>2</sup>
	<b>Total</b>	<b>120 my</b>	<b>9 g / m<sup>2</sup></b>
			<b>- 94%</b>

### VOC-reducing 1-coat system:

Teknos have also recognised the importance of improving the productivity of the painting process. This has resulted in a series of products that combine the properties of Primer and Topcoat in a single product that can be applied in one operation.

These products help simplify the coating process, raise productivity and throughput, whilst reducing the VOC emissions.

I	TEKNODUR Combi 3430	120 my	69 g / m <sup>2</sup>	
	<b>Total</b>	<b>120 my</b>	<b>69 g / m<sup>2</sup></b>	<b>- 51%</b>
II	INERTA MASTIC MS 150	120 my	32 g / m <sup>2</sup>	
	<b>Total</b>	<b>120 my</b>	<b>32 g / m<sup>2</sup></b>	<b>- 77%</b>
III	TEKNORAN 3304	120 my	57 g / m <sup>2</sup>	
	<b>Total</b>	<b>120 my</b>	<b>57 g / m<sup>2</sup></b>	<b>- 59%</b>

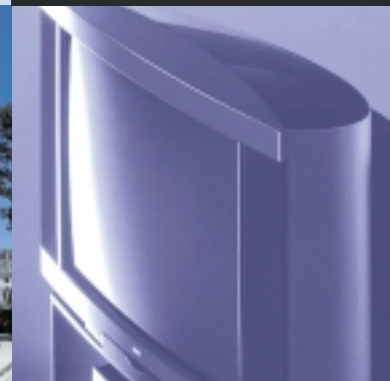
## Teknos' VOC-reducing paint technology protects your products...

Each day, coated products are exposed to UV, humidity, corrosion, mechanical and chemical attack. Teknos' VOC reducing products are designed to maintain the "protection and appearance" of Customer's products" and are already proven in extensive use all over Europe.

Coating of trains, cranes, lifting devices, etc. which makes heavy demands on the UV, corrosion and mechanical resistance are being carried out successfully with TEKNOS' 2-component water-borne Epoxy and Polyurethane products.

Steel structures, earth moving equipment and other heavy plant traditionally coated with a 2-coat system consisting of solvent-based Primer and Topcoat are today protected by TEKNOS' High Solids Products, which besides being VOC-reducing, have reduced coating times and speeded production

*TEKNOS' 1 and 2-component water-borne products are widely applied in the metal and plastic fabrications, typical examples being diesel engines, lamps, processing machines, safes, and electronic equipment.*



**Contact us!**  
**- together we will solve your VOC challenge...**

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