

Solvent free LIVOS Products

with 0% VOC

Product	Product name	Description
168	ELERKOS	Clay Plaster
169	ELERKOS	Clay Paint
196	KOIMOS	Natural Oil
260	LINUS	Wood & Cotto Oil
267	GORMOS	Wax Oil
277	KOIMOS	High Solid Parquet Oil
302	ALISA	Hard Wax
307	SOGO	Universal Hard Wax
404	ALBION	Distemper
425	SUNNO	Pigment Concentrate
440	VEDO	Wall Filler
470	STRUTIVOS	Marble Pit Lime Rough Plaster
471	STRUTIVOS	Marble Pit Lime Fine Plaster
474	STRUTIVOS	Marble Pit Lime Texture Plaster
475	STRUTIVOS	Marble Pit Lime Paint
503	BILIS	Natural Tile Adhesive
535	LAVO	Natural Wall Paper Paste
554	TAKETI	Paint Stripper
556	TRENA	pH-Neutral Cleaner
559	GLANOS	Natural Liquid Wax Cleaner
574	LANJA	Leather Lotion
849-870	URA	Natural Pigment Powder
1090/1091	VIDA	Natural Make-Up Set
1400-1499	WEJA	Plant Dye Kit
1806	GLOUROS	Natural Siding and Masonry Cleaner
1808	GLOUROS	Cement Residue Remover
3000	Linseed Oil	Edible Oil
3000	Linseed Oil	Edible Oil
4520	COLONY	Hoof Balm
4800	COLONY	Wound Protection
4900	COLONY	Linseed Oil
4920	COLONY	Linseed Cake
8101-8170	TOGIS	Textile Printing Ink

Exceptions: 8105, 8159, 8164

Solvent poor LIVOS Products

with less than 3% VOC

Product	Product name	Description
340	BODIOS	Hydro Wax Stain - water based
407	ALBION	Natural Wall and Ceiling Paint
408	GRAVA	Wall Primer Sealer
465	DUBRON	Natural White Plaster
1842	GLOUROS	Aluminium Cleaner

LIVOS High Solid Products with less than 250 g / L VOC

208	KOIMOS	High Solid Floor Oil
426	DELVA	Smooth Render
427	SUNNO	Sponging Glaze
450	SUNNO	Plant Glaze Concentrate
451	SUNNO	Glaze Binder
513	DOMO	Natural Universal Adhesive
539	TEKNO	Oil and Wax Remover
548	TAROS	Natural Toilet Cleaner
551	LATIS	Natural Intensive Cleaner
558	LATIS	Natural Tool Cleaner
905	SALIS	Finger Paints
629-081	VINDO	Natural Gloss Paint, Burnt Umbra
674	AMELLOS	Natural All Weather Paint
725	BASKO	Wooden Floor Putty

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LIVOS

Information

Low-VOC and VOC-Free products

When working with coating materials toxicological precarious **solvents** often become free, which can lead to chronic illnesses and allergies. The effect of high doses but also long-term inhalation of small quantities, can lead to acute damage.

As the Federation of the Occupation and Work Physicians already communicated in 1987, allergies became the No. 1 occupational illness in Germany through the contact with oils and solvents.

Since the 01.01.2007 the Decopaint - directive is into force, which contains an adjustment of the permitted maximum quantity of solvents in products. By this regulation all lacquers and paints are affected, which are applied on construction units, which are firmly connected with the house. Not affected are however furniture coatings, polishes as well as cleaning agents.

For LIVOS this directive does not go far enough and beside the full declaration of all ingredients introduced since 1984, we examine all raw materials according to a holistic catalogue of criteria and under health and ecological aspects, also from independent institutes.

There are numerous solvent-free products, but also solvent containing, which are harmless with regard to human, environmental and future generation compatibility, but we recommend to possibly test by yourself and provide inexpensive samples for it.

The used LIVOS-Solvents are:

- Water
- Isoaliphates: aromatic-free, synthetically produced solvents, which are also used in cosmetic, medicinal, hair and deodorant spray products.
- Orange oil: only used in food-grade quality.
- Ethanol: an Alcohol, which is denatured with shellac.

Please do not hesitate to request information about individual products or the Classic- or Neutral- as well as the products which can be used in the remediation area.

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The European Decopaint-directive

The label has to contain a reference to the statutory imprint with the indication of the category, to which the product belongs, as well as the permitted quantity of the solvents and the actually existing amount. Products, which do not fulfill this condition, or do not have such imprint, are no more permitted to be sold starting from 01.01.2008.

Below the categories are explained, as far as they concern **LIVOS**-products:

- a) 'matt coatings for interior walls and ceilings' means coatings designed for application to indoor walls and ceilings with a degree of gloss $\geq 25@60^\circ$.
- b) 'glossy coatings for interior walls and ceilings' means coatings designed for application to indoor walls and ceilings with a degree of gloss $> 25@60^\circ$.
- d) 'interior/exterior trim and cladding paints for wood, metal or plastic' means coatings designed for application to trim and cladding which produce an opaque film. These coatings are designed for either a wood, metal or a plastic substrate. This subcategory includes undercoats and intermediate coatings;
- e) 'interior/exterior trim varnishes and woodstains' means coatings designed for application to trim which produce a transparent or semi-transparent film for decoration and protection of wood, metal and plastics. This subcategory includes opaque woodstains. Opaque woodstains means coatings producing an opaque film for the decoration and protection of wood, against weathering, as defined in EN 927-1, within the semi-stable category;
- f) 'minimal build woodstains' means woodstains which, in accordance with EN 927-1:1996, have a mean thickness of less than 5µm when tested according to ISO 2808: 1997, method 5A;
- g) 'primers' means coatings with sealing and/or blocking properties designed for use on wood or walls and ceilings;
- h) 'binding primers' means coatings designed to stabilise loose substrate particles or impart hydrophobic properties and/or to protect wood against blue stain;
- i) 'one-pack performance coatings' means performance coatings based on film-forming material. They are designed for applications requiring a special performance, such as primer and topcoats for plastics, primer coat for ferrous substrates, primer coat for reactive metals such as zinc and aluminium, anticorrosion finishes, floor coatings, including for wood and cement floors, graffiti resistance, flame retardant, and hygiene standards in the food or drink industry or health services.

Maximum VOC Content limit values for paints and varnishes and the VOC-Content in LIVOS products

Product Subcategory	Type	Phase I	Phase II	Product sample	Actual VOC content
a	WB	75	30	DUBRON Natural Dispersion Paint No. 412 ELERKOS Clay Plaster No. 168	0 0
	SB	400	30		
b	WB	150	100	SUNNO Glaze Binder No. 451 SUNNO Sponging Glaze No. 427	80 45
	SB	400	100		
d	WB	150	130		
	SB	400	300	GORGO Natural Concrete Floor Paint No. 607 - 051 VINDO Natural Gloss Paint No. 629 - 201 AMELLOS Natural All-Weather Paint No. 674 - 081	230 266 108
e	WB	150	130		
	SB	500	400	TUNNA Natural Floor Varnish- Semi gloss No. 610 TUNNA Natural Floor Varnish -Gloss No. 611	383 383
f	WB	150	130		
	SB	700	700	KOIMOS Natural Oil No. 196 KOIMOS High Solid Floor Oil No. 208 - 002 KUNOS Natural Oil Sealer No. 244-002	0 26 442
g	WB	50	30	GRAVA Wall Primer Sealer No. 408	28
	SB	450	350	REMIO Natural Stain Blocking Primer No. 618	244
h	WB	50	30	BASKO PCP Pre-Treatment No. 724	0
	SB	750	750	BASKO Masking Lacquer No. 730 BASKO Masking Lacquer No. 740	550 634
i	WB	140	140		
	SB	600	500	DURO Natural Rust Preventive Primer No. 623 - 051 DURO Natural Rust Preventive Primer No. 623 - 211	262 236

WB = Water-based
SB = Solvent-based

Phase I: valid from 01.01.2007, values expressed in grams/litre (g/l), in the formulation of the product in its ready to use condition.
Phase II: valid from 01.01.2010, values expressed in grams/litre (g/l), in the formulation of the product in its ready to use condition.