

Technical Data Sheet

HARDLUX DIRECT 3in1

anti-corrosion coating for protection of metal surfaces



product description:	HARDLUX DIRECT 3in1 is an anti-corrosive coating for the protection and decoration of metal surfaces. The product combines the best characteristics of a primer and topcoat. Due to its anti-corrosive properties, it can be applied directly onto the rust without primer.
field of application:	Protection and decoration of metal surfaces.
assortment:	It is produced in 14 standard shades and by applying the Top Mix system for tinting CHROMOS-SVJETLOST it is possible to achieve wide range of shades from the Chromos-Svjetlost colour chart and many others charts on the market.
properties:	The product is: Resistant to wear and weak chemicals Good hardness
thinner:	SYNTHETIC THINNER
coating appearance:	Glossy and fullness of the film.
coverage:	10 – 12 m ² /l in one layer, with a dry film thickness of 30 – 40 µm
density:	0.95 – 1.15 kg/l (depending on the shade) (EN ISO 2811-1)
viscosity:	45 – 80 s (EN ISO 2431; DIN 6, 20 °C)
non-volatile-matter content:	60 ± 4 % (by weight); 47 ± 3 % (by volume) – depending on the shade (EN ISO 3251)
volatile organic compound (VOC) content:	A(i) 500 g/l; max: 499 g/l (EN ISO 11890-1)
working conditions:	The temperature of the air, material and substrate during processing must be higher than +10 ° C, less than +25 ° C, and relative humidity less than 75 %.
substrate preparation:	Apply to sanded and surfaces cleaned of coarse particles of rust. The sanded surface must be degreased with a suitable thinner or ethanol. The coating should be applied to the dry surface after evaporation of the mentioned solvents.
application:	Mix material in original packaging well before use! Different production batches of HARDLUX DIRECT 3in1 must be cross mixed before use. For protection of metal surfaces in aggressive environments, one coat of HARDLUX HB primer is recommended. Kemodur S primer or Kemepox Wash primer must be used as a first coat in the protection of galvanized or cooper surfaces. For the best result the surface must be free of larger rust particles, grease and moisture. Coating is applied by spray, brush or roller. On well prepared surface apply 2 – 3 coats of the topcoat. For any additional info, please contact a Chromos-Svjetlost technical advisor.
drying time:	touch dry: 4 – 6 h completely dry: 24 h
overcoating interval:	3 – 4 hours, at optimal working conditions, 18 – 22 °C, relative humidity 40 – 75 %. Room temperature must be above 12 °C.
transport and storage:	Store in a dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 °C.
shelf life:	In unopened packaging 60 months from the date of production.

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certificates:	For each production batch, the relevant documentation is submitted.
product/packaging disposal:	Empty the packaging completely. Dispose of in accordance with valid regulations to an authorized waste collector.
quality control:	Product quality characteristics are determined by internal production specifications, as well as European and Croatian standards. The product is under the constant supervision of factory quality control Chromos-Svjetlost d.o.o.
disclaimers:	<p>Technical values refer to basic products. Tinting the product may cause minor deviations in certain technical characteristics. Depending on the properties of the substrate and the method of application of the product, minor deviations in shade in relation to the tone chart are possible. The product shade should be checked on a small test surface before use, as we will not be able to accept any subsequent complaints.</p> <p>Before using the product, please check its quality. In case of any major deviations from the declared properties of the product, stop the use and contact the manufacturer; otherwise any subsequent complaints will not be accepted.</p> <p>Technical data are the result of our technical and experimental knowledge, and are provided with the intention of achieving optimal results in working with CHROMOS-SVJETLOST products. The data does not contain a legal or secondary obligation of the manufacturer nor does it release the user from the obligation to check the suitability of the product for particular purpose. Due to the use of natural raw materials in our products, minor deviations from certain values are possible for individual deliveries. Contact our Technical service before use on substrates not listed in the accompanying documentation. The manufacturer reserves the right to make any subsequent changes to the Technical Data Sheet. Only the latest edition is valid. Updated Technical Data Sheets can be found on the website www.chromos-svjetlost.hr or can be requested from the manufacturer via the contact e-mail address below. Contact our Technical service for more detailed information. Be sure to read the safety labels on the product packaging before use. Safety Data Sheet is available on request.</p>

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Quality and Environmental management systems certified in accordance with TÜV NORD Croatia;
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