Technical Data Sheet

KEMEPOX AQUA

Water-dilutable 2C epoxy resin

product description:	Two component water-dilutable coating based on epoxy resin. Prevents the penetration of harmful substances and water. It's intended to protect heavily loaded, new and old, concrete substrates.
field of use:	It is suitable for protection and decoration of concrete surfaces, mineral wall surfaces, for finishing concrete substrates where greater mechanical resistance is required, decorative protection in craft workshops, laundries and warehouses. It is used as a protective decorative coating on concrete linings of tunnels, underground structures, etc. Resistant to temperature variations and no bublles formig.
product range:	It is produce in white colour, other shades at the customer's request.
product properties:	Wear resistant Resistant to weather and alkaline substances Washable High CO_2 permeability
packaging:	19.5 kg (15 kg component A + 4.5 kg component B).
dilution:	Pure water, max. 10 %
consumption:	0.2−0.45 kg/m^2 in two layers, depending on the absorbency and roughness of the substrate. Determine the exact consumption of the coating by makeing a test field on the object.
density:	A+B: 1.4 kg/l (EN ISO 2811-1)
mixing ratio:	By weight: Component A : component B = 10 : 3 (Kemepox aqua : Hardener for Kemepox aqua = 10 : 3) By volume: Component A : component B = 8.95 : 4.07 (Kemepox aqua : Hardener for Kemepox aqua = 8.95 : 4.07)
non-volatile-matter content:	A component: 71−73 % (EN ISO 3251)
dry film thickness:	Approx. 80 µm/one layer.
volatile organic compounds content (VOC):	A(j), 140 g/l; maks. 15 g/l (EN ISO 11890-1)

classification according to EN 1504-2:

Permeability to CO_2	S_D > 50 m
Capillary absorption and permeability to water	w < 0.1 kg/ (m^2*h^{0,5})
Permeability to water vapour	S_d < 5 m, Class I (permeable to water vapor)
Diffusion of chloride ions	Very high resistance to chloride penetration at depth of 1-2 cm
Fire classification	B-s1,d0

technical data according to EN 13300:

Largest grain size (EN ISO 1524)	Fine < 100 µm
Wet scrub resistance (EN ISO 11998)	Class 1
Contrast ratio (opacity) (EN ISO 6504-3)	Class 1

working conditions:	The temperature of the air, material and surface during processing must be higher than

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	+10 °C and lower than +30 °C, and the relative humidity lower than 80 %. The minimum substrate temperature must be 3 °C higher than the dew point. The material must not be applied on sunny and in windy or foggy weather (be sure to place a screen against the sun or rain on the scaffolding). Low temperatures as well as high air humidity prolong the setting time and can change the shade unevenly. High temperature in summer shorten the open time of the material.
substrate preparation:	The substrate must be completely dry, smooth, clean, free of loose parts, dust, grease stains, mold and other foreign substances and with a maximum moisture content of 3.5%. Before each painting, the substrate must be inspected and it's condition determined. All loose parts of the substrate and old coatings should be removed. The resulting unevenness, depending on their depth, fill with suitable plasters or levelling compounds. Substrates infected with algae and fungi should be cleaned with a cloth or brush and a solution of universal cleaning agents or by using high-pressure washers (adjust the water pressure and spray angle so that the facade is not damaged). After drying, treat with biocide solution *Algenon* or *Algenon Plus.* Wash greasy and heavily soiled parts with solution of potassium soap. The concrete base must be at least one month old. We recommend impregnating the substrates with Kemepox Aqua epoxy impregnation to reduce and even out the absorbency of the substrate.
material preparation and application:	Before use, mix the Kemepox aqua in the original packaging with a slow rotating mixer (stir Kemopox aqua in it's original packaging and stir hardener for Kemepox aqua in it's original packaging). Prepare the epoxy coating by adding Kemepox aqua hardener to Kemepox aqua and mix the mixture for 2-3 minutes. If necessary, dilute with water to the desired consistency for application, maximum 10%. Mix only the amount of paint that is sufficient for a single coating of the area that can be painted within approx. 1.5 h. **Different production batches, as well as products tinted in the Top Mix system, must be cross mixed before use.** Kemepox aqua is applied with paint brush, paint roller (fibre length between 18-20 mm) or airless spray in two layers. When using a roller use a suitable paint roller net. The second layer is applied only when the previous one is completely dry (approx. 4−6 h). For spray application of the material, use high-pressure devices, without filters, with nozzles in accordance with the device manufacturer's instructions. Spray the material at a 45 ° angle, followed by a roller to achive final apperance. In order to avoid visible points of connection and traces of the roller or brush, we recommend applying it "wet on wet", without interruption from one extreme end of the surface to the other. Subsequent repairs are not allowed. Additional paint correction during the application is not allowed (dilution, addition of colorants, etc.). Wash the tool immediately after working. Adhere to the applicable construction standards when applying the products. For any additional info, please contact a Chromos-Svjetlost technical advisor.
open working time and drying of the coating:	

Working temperature	Pot life
10 ºC	2 hours
20 ºC	1.5 hours
30 ºC	1 hour

After the expiration of the pot life, the coating is not usable, although it is still in a liquid state. The surface is dry to the touch after 4 h and completely dry after 8 h. The intercoating interval is 24 h, and after 4 days the surface can be mechanically burdend, and after 7 days it is completely hardened (20 ° C and rel. humidity 65%).

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	High temperature in summer shorten the open time of the material and low temperatures prolong the open time. During the curing process (within 24 hours), the applied material must be protected from moisture, so as not to reduce the bonding power to the substrate or damage the surface.
safety measures:	It is necessary to follow the general rules for construction works. Keep out of reach of children. Wear protective equipment. Read the product safety data sheet before use.
transport and storage:	Store in a dry and well-ventilated place out of direct sunlight at a temperature of +5 to +25 ° C. Protect it from freezing.
shelf life:	In unopened packaging one year.
product/packaging disposal:	Empty the packaging completely. Dispose of in accordance with valid regulations to an authorized waste collector.
quality control:	Kemepox Aqua has been tested in accordance with the harmonized standard EN 1504-2 (Declaration of performance number: 21). The product is under the constant supervision of factory quality control Chromos-Svjetlost d.o.o.
other information:	Under the influence of UV radiation and the atmosphere, chalking and changes in color are possible.
disclaimers:	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. 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. 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.

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