

CEM-O-LUX

One-component coloured enamel for concrete flooring, driveway



CE marking:

→ EN 13813 • Designation: SR-B2,0-AR0,5-IR10



TECHNICAL FEATURES



UV RESISTANT



FROST



STAIN RESISTANT



SLOW CURING

FIELD OF APPLICATION



IN/OUTDOOR



FLOORS



SIDEWALKS



GARAGE

APPLICATIONS



1 PART



READY TO USE



ROLLER



BRUSH



CARRIAGEABLE

Description

CEM-O-LUX is a colored enamel based on non-yellowing thermoplastic resins dissolved in solvent with very low odor, prepared in two different formulations to be applied in two coats, PRIMER and FINISH.

Applied on concrete surfaces, CEM-O-LUX gives rise to a colored aestheticizing protective coating with the following characteristics:

- Opaque.
- High hardness.
- Tenaciously bonded to the substrate.
- Water-repellent and resistant to oils and tyres.
- Applicable indoors and outdoors.
- Quickly develops resistance to rain (12 hours with application at +30°C).

CE Marking

► EN 13813

CEM-O-LUX (PRIMER + FINISH cycle) complies with the principles defined by EN 13813 ("Screeds and materials for screeds - Materials for screeds: Properties and requirements") with designation:

→ SR-B2,0-AR0,5-IR1

- Synthetic resin (SR) based screed.
- Adhesion strength: ≥ 2.0 MPa (B2.0)
- BCA wear resistance: ≤ 50 microns (AR0.5)
- Impact resistance: 10 Nm (IR10).

Colour

CEM-O-LUX is available in DIY KIT of 1 kg PRIMER + 1.5 kg FINISH in the following colors:

- GRIGIO FINESTRA
- VERDE OSSIDO (green oxide)
- ROSSO OSSIDO
- TOBACCO

CEM-O-LUX is also available in packages for professional use in various colours on request (contact the Nord Resine Technical Service), including the standard colours.

Field of application

CEM-O-LUX is used as a stain-resistant and anti-wear protective treatment of concrete floors of:

CEM-O-LUX

- Garages, garages and private parking areas for cars.
- Concrete sidewalks.
- Concrete walls and curbs.
- Flooring of industrial warehouses used as warehouses.
- Storage rooms and attics.

Advantages

- CEM-O-LUX has a high yield in m² per kg of applied product.
- CEM-O-LUX is easy to apply (it can also be marketed for do-it-yourselfers) and guarantees excellent success at the end of the application.
- CEM-O-LUX does not fear rising moisture from the surface on which it is applied.
- CEM-O-LUX is available in 4 colours (do-it-yourself packaging) or in colours on request (packaging for professional use).
- CEM-O-LUX is driveable.

Specific preparation of the laying substrate

► *New industrial concrete flooring*

- Especially outdoors, check that no concrete curing paint ("Concrete Curing Membrane" or "Concrete Curing Compound") has been applied to the surface. If so, remove the film by scraping or sanding.
- Remove any traces of oils/fats by washing with STRIPPER.
- If the concrete surface has a "too glossy" finish, roughen it by acid washing with NORDECAL FORTE GEL (see instructions in the Technical Data Sheet).
- If the floor has undergone a general pressure wash, wait a few days until it is perfectly dry before proceeding with the application of CEM-O-LUX PRIMER.
- Seal any cracks and joints with two-component epoxy putty PLAST EPO (see Data Sheet for application details).
- Always remove the powder before applying CEM-O-LUX PRIMER.

► *Screeds or screeds in sand and cement*

- Remove the dust and check that the surface is hard and cohesive.
- If the surface "chalks" not only on the surface, but also in depth, consolidate with CONSOLID PU.
- If the chalking is only superficial, proceed with the application of CEM-O-LUX PRIMER which will itself act as a consolidator.

► *Concrete or screed flooring already painted*

- Remove the existing paint completely, as CEM-O-LUX is not suitable for installation on surfaces that have already been treated.
- Always remove the powder before applying CEM-O-LUX PRIMER.

► *Old industrial concrete flooring*

- Remove any traces of oils/fats by washing with STRIPPER.
- Wait until the surface is completely dry before applying CEM-O-LUX PRIMER.
- If the concrete surface has a "too glossy" finish, roughen it by acid washing with NORDECAL FORTE GEL (see instructions in the Technical Data Sheet).
- Repair any holes or cracks with MALTAFIX, a specific quick-setting product based on cements and fillers (see Technical Data Sheet).

Wait 24 – 48 hours before proceeding.

- Always remove the powder before applying CEM-O-LUX PRIMER.

► *Concrete pavement with some traces of rising damp*

- Perform a thorough acid wash with NORDECAL FORTE GEL (see instructions in the Data Sheet).
- Rinse the surface and completely remove the washing liquid, taking care that no stagnation remains in the area to be treated.
- Wait one day for the floor to dry completely.
- Apply one coat (approx. 200 g/m²) of NORDRY 200 P (see details in the Technical Data Sheet) with a short-haired roller for solvents, taking care to insist particularly in areas with traces of damp.

CEM-O-LUX

• Wait for the solvent to evaporate from the surface, but NOT for the hydrophobic treatment (NORDRY 200 P) to fully mature.

In this regard, it is advisable to wait from a minimum of 2 hours (with high temperatures) to a maximum of 6 hours (at low temperature), but never more than 8 hours, beyond which the surface will become non-absorbent.

• Proceed with the application of CEM-O-LUX PRIMER.

Product preparation

► *Instructions valid for both CEM-O-LUX PRIMER and CEM-O-LUX FINISH*

- CEM-O-LUX PRIMER and TOPCOAT products are ready to use.
- Homogenize the product by shaking the closed jar vigorously for a few seconds or stirring it thoroughly with a spatula or other suitable tool until a homogeneous color is obtained.
- In the case of the package for professional use, mix with a professional mixer at low speed.
- CEM-O-LUX can be poured directly onto the surface to be coated or into a service container of suitable size for the introduction of the roller.

Product application

► *Application of CEM-O-LUX PRIMER*

- The product is applied with a 25 cm solvent-resistant SHORT PILE ROLLER or with air-less spraying.
- Pour CEM-O-LUX PRIMER directly onto the substrate or remove it with the roller from a suitable serving container.
- Roll the product by crossing the product three times over the entire surface, making sure to obtain a uniform impregnation of the substrate.
- Avoid the formation of product stagnation.
- If you need to treat small surfaces (walls, concrete curbs, etc.), you can apply CEM-O-LUX PRIMER with a brush.

► *Maturation of CEM-O-LUX PRIMER*

- Ventilate the rooms only after the surface drying of CEM-O-LUX PRIMER has been achieved, i.e. when the gloss coat becomes opaque.

If the ventilation takes place earlier (when the product is still fresh), the rapid evaporation of the solvent does not allow the elimination of bubbles formed on the surface during application.

- Before proceeding with the application of CEM-O-LUX TOPCOAT, wait until the CEM-O-LUX PRIMER is walkable.

Table 1 shows the minimum walkability times as a function of the application/maturation temperature.

Application/Curing Temperature [°C]	Minimum Time Before Foot Traffic [hours]
+5°C	8
+23°C	5
+30°C	3

Tab. 1: minimum walkability times of CEM-O-LUX PRIMER as a function of temperature.

► *Maturation of CEM-O-LUX FINISHING - Use of surfaces*

- Wait until the FINISH is walkable before carrying out other operations (e.g. wax protection).

Table 2 shows the minimum walkability times depending on the application/maturation temperature.

CEM-O-LUX

Application/Curing Temperature [°C]	Minimum Time Before Foot Traffic [hours]
+5°C	24
+23°C	10
+30°C	6

Tab. 2: minimum walkability times of CEM-O-LUX FINISH as a function of temperature.

• The minimum time for the transit of vehicles (driveway) on CEM-O-LUX depends on the curing temperature of the treated surface.

Table 3 shows the minimum driveway times as a function of the ripening temperature.

Application/Curing Temperature [°C]	Minimum time before vehicular traffic after applying CEM-O-LUX FINITURA [days]
+5°C	3
+23°C	2
+30°C	2

Tab. 3: minimum driveway times of the package CEM-O-LUX after the application of the FINISH as a function of temperature.

► Application of CEM-O-LUX FINISHING

- The product is applied with a 25 cm solvent-resistant SHORT PILE ROLLER or with air-less spraying.
- Pour CEM-O-LUX FINISH directly onto the substrate to be coated.
- Roll three times over the entire surface, making sure to obtain an even coverage of the substrate.
- Avoid the formation of product stagnation.

► Protection of CEM-O-LUX with CEM WAX

- For longer life and better cleanability of the CEM-O-LUX coating made in INTERIORS, it is recommended to apply CEM WAX.
- CEM WAX is a ready-to-use aqueous emulsion wax (in a bottle equipped with a practical sprayer) with high scratch resistance, semi-glossy effect and easily renewable (see specific Technical Data Sheet).
- Treatment with CEM WAX should be carried out at least 24 hours after the application of CEM-O-LUX FINISH.

Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
CEM-O-LUX PRIMER	0,12	0,13	kg/m ²	(1)
CEM-O-LUX FINITURA	0,18	0,19	kg/m ²	(1)

(1) The 2.5 kg pack (kit) (1 kg of CEM-O-LUX PRIMER + 1.5 kg of CEM-O-LUX FINISH) is sufficient to treat an area of approx. 8 m².

Tool cleaning

- Fresh product: cleaning with acetone, SOLVLINE CLEANER or nitro thinner.
- Hardened product: mechanical removal, soaking in solvents (acetone or nitro thinner) or use of paint strippers (FLUID STRIPPER or GEL STRIPPER).

Useful tips for laying

- Shake the containers vigorously for a few seconds before opening and shake them again from time to time during application.

CEM-O-LUX

- Do not apply in case of imminent or forecast rain.
- Protect CEM-O-LUX from rain in the first 12 hours at +30°C and in the first 24 hours at +5°C.
- Do not apply with relative humidity above 85%.
- For application, the temperature must be at least 3°C above the dew point and in any case above +5°C.
- Ventilate the rooms only after the product is walkable.
- The product is flammable.
- The product is dangerous, take the precautions and PPE indicated in the Safety Data Sheet in point 8.
- Read the Safety Data Sheet carefully before use.

Maintenance

► Routine cleaning of CEM-O-LUX

- The ideal product for cleaning surfaces treated with CEM-O-LUX (with or without CEM WAX) is CEM CLEANER diluted in water 1:5 by volume (1 litre of product in 5 litres of water).
- Clean with a sweeper, mop, industrial scrubbing machine (also scrubber dryer) or single-disc machine with white Scotch Brite® disc.
- Rinse with water (lukewarm is best).

Technical Data

► PRODUCT IDENTIFICATION DATA (CEM-O-LUX PRIMER)		value
Density at 20°C, EN ISO 2811-1	kg/L	1,006 ± 0,005
Kinematic viscosity (cup 6 ISO, 23°C), EN ISO 2431	s	55 ± 3
Appearance	-	Colored liquid
Odor	-	Of organic solvents
► APPLICATION DATA AND FINAL PERFORMANCE		value
Application temperature	°C	+5 to +30
Maximum relative air humidity for application	-	(85 ± 5)%UR
Surface drying time (20°C, 50%RH), EN ISO 9117-3	min	40 ± 5
Set to foot traffic (at +5°C)	hours	8
Set to foot traffic (at +23°C)	hours	5
Set to foot traffic (at +30°C)	hours	3
► PRODUCT IDENTIFICATION DATA (CEM-O-LUX FINISH)		value
Maximum media humidity (carbide method), UNI 10329 / DIN 18560-4 / ASTM D4944	-	5%
Brookfield apparent dynamic viscosity (23°C / 50% RH; spindle ASTM#4, 80 rpm), EN ISO 2555	mPa·s	2500 ± 500

CEM-O-LUX

► APPLICATION DATA AND FINAL PERFORMANCE (CEM-O-LUX FINISHING)		value
Maximum atmospheric humidity for application	-	(85 ± 5)%UR
Surface drying time (20°C, 50%RH), EN ISO 9117-3	min	50 ± 5
Operating temperature	°C	-20 to +65
Water vapour permeability (μ), DIN 52615	-	15000 ± 2000
Surface gloss, gloss 60°, EN ISO 2813	-	(9 ± 1)°
Surface gloss, gloss 60°, with CEM WAX, EN ISO 2813	-	(30 ± 4)°
Wear resistance – Taber method, grinding wheel CS17, 1000 rpm, load 1 kg, EN ISO 5470-1	mg	118 ± 10
Resistance to UV and condensation cycles, cycle A (8 hours UVA-340 + 4 hours condensate 50°C), 168 hours overall, yellowing measurement, RE, ASTM D 4329	-	0,4 ± 0,1
UV and condensate cycle resistance, A cycle (8 hours UVA-340 + 4 hours condensate 50°C), 168 hours overall, opacification measurement, RGloss, ASTM D4329	-	< 1°
Maximum tyre footprint resistance temperature	°C	+65
Static contact angle (water repellency measurement), NORMAL 33/89	-	(110 ± 10)°
Buchholz hardness, EN ISO 2815	-	54 ± 8
► TECHNICAL DATA IN ACCORDANCE WITH EN 13813 (CEM-O-LUX PRIMER + TOPCOAT)		value
BCA wear resistance, wear depth, EN 13892-4	μm	20 ± 5
Bond strength, EN 13892-8	MPa	2.7 ± 0.3 Substrate failure
Impact resistance (class), measured on MC coated concrete samples (0.40) according to EN 1766, EN ISO 6272-1	N-m	10 ± 1

Product storage

- 24 months in the original closed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +5°C and +35°C.

Packaging

VARIANT	PACKAGE	ADR PACKAGE / PALLET COMPONENTS		NOTES
WINDOW GRAY (RAL 7040)	PRIMER + FINISH 20 kg	SI'	-	PRIMER: 8 kg (steel bucket) FINISH: 12 kg (steel bucket) (1)
WINDOW GRAY (RAL 7040)	box with 4 kits of 2.5 kg	P*	35 boxes	PRIMER: 1 kg for each kit (can met.) FINISH: 1.5 kg for each kit (can met.) -
COLOUR PRICE GROUP 1	PRIMER + FINISH 20 kg	SI'	-	PRIMER: 8 kg (steel bucket) FINISH: 12 kg (steel bucket) (1)
COLOUR PRICE GROUP 2	PRIMER + FINISH 20 kg	SI'	-	PRIMER: 8 kg (steel bucket) FINISH: 12 kg (steel bucket) (1)
COLOUR PRICE GROUP 3	PRIMER + FINISH 20 kg	SI'	-	PRIMER: 8 kg (steel bucket) FINISH: 12 kg (steel bucket) (1)
COLOUR PRICE GROUP 4	PRIMER + FINISH 20 kg	SI'	-	PRIMER: 8 kg (steel bucket) FINISH: 12 kg (steel bucket) (1)

NOTES:

(1) Tie-closure drums.

ADR legend:

NO = NON-DANGEROUS goods

P* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

SI = DANGEROUS Goods

CEM-O-LUX

LEGAL NOTES

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It is the user's responsibility to verify in advance, also through suitable tests, the suitability of the product for the intended use, compatibility with the substrate, appropriate environmental application conditions, and the execution of the installation according to workmanship standards, assuming all liability arising from the use of the product and the final result of the works.

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This Technical Data Sheet cancels and replaces previous editions. Please check the latest and most updated revision at <https://nordresine.com/en/>

EDITION

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