EUROSTEP
Posadzki i nawierzchnie syntetyczne

TECHNICAL DATA SHEET

Reference: TDSSRL

Edition no.: 1.0

EUROPOX SRL

DESCRIPTION:

Europox SRL is a two part, solvent-free, pigmented epoxy roller coat for concrete and cementitious screeds with good mechanical properties. Use Europox SRL to achieve a glossy epoxy coating finish.

Ideal for storage and logistics areas, assembly halls, workshops, garages, loading docks/ramps and agricultural applications. Use 3% to 5% Quartzline "Antislip KM" to achieve an anti-skid finish.

Heavy duty anti-skid surfaces for underground carparks can be achieved using quartz, mandurax or granite.

Taber Abrasion:

CS10, 10N load, 0 - 500 Cycles +/- 20 mg
CS10, 10N load, 500 - 1000 Cycles +/- 20 mg → Total after 1000 Cycles +/- 40 mg
CS10, 10N load, 1000 - 1500 Cycles +/- 16 mg → Total after 1500 Cycles +/- 56 mg

CS17, 10N load, 0 - 500 Cycles +/- 28 mg
CS17, 10N load, 500 - 1000 Cycles +/- 32 mg → Total after 1000 Cycles +/- 60 mg
CS17, 10N load, 1000 - 1500 Cycles +/- 37 mg → Total after 1500 Cycles +/- 100 mg

MIXING:

Mixing ratio: Component A: Component B = 83.33 : 16.67 (by weight)

Add part B to part A and mix continuously for 2 minutes until a uniform mixture has been achieved. If "Antislip KM" is needed, it is added at this stage.
To ensure thorough mixing pour the materials into a second container and mix again for one minute to achieve an even consistency.
To minimize air bubbles avoid over mixing.
Mixing is preferably done with a power mixer on low speed, from 300 to 400 RPM, with a Quartzline WK 90 mixer paddle.

SYSTEM CONSTRUCTION:

Levelling:
Rough or uneven surfaces must be levelled first using Quartzline Cementitious SL Underlayment or Constructive.
See TDS Cementitious SL.
Primer for porous substrates:
On porous surfaces use SL-EP Scratchcoat or Europox Z Slow which will penetrate the substrate and ensure a strong mechanical bond. Instead of the Europox Z Slow there also can be primered with the Europox SRL.
Primer for non-porous substrates:
Quartzline Primer GW is used on non-absorbent substrates. This primer has very good physical adhesion, especially for ceramic tiles.
Scratch coat:
For extra levelling and/or to seal the substrate an extra scratch coat can be an option. SL-EP Scratchcoat or Europox Z Slow with Microdol A100 filler. A scratch coat is preferably applied at 0,5 to 1 kg per square meter.
Antiskid:
Regarding heavy duty anti-skid surfaces for car parks, either the scratch coat or the first layer of Europox SRL has to be fully saturated with quartz, mandurax or granite. (Additional documentation for this procedure is available on request.)

Wearing course: *Europox SRL*

For regular anti-skid surfaces, use the Quartzline "Antislip KM" 3% to 5% maximum. If the Europox SRL is applied in two separate layers, it will suffice to use the "Antislip KM" only in the last layer.
Topcoat: For extra wear resistance, UV protection and a matt or satin finish, Coating PU MG Matt or Satin Gloss can be used.

PROPORTIES:

- Liquid proof
- Near solvent free
- Easy application
- Economical
- Excellent hiding power
- Easy to clean, even antiskid
- Good chemical and mechanical resistance

TECHNICAL PARAMETERS:

Viscosity[1] [mPa·s]	1600-1900
Density[2] [g/cm³]	1,64
Shore Hardness[3]	> D90
Electrical conductivity	>100 GΩ
Compression strength[4] [N/mm²]	> 70
Flexural strength[4] [N/mm²]	> 40
Mixing ratio	83.33 A – 16.67 B
Adhesive strength[5] [N/mm²]	> 1,5 (wytrzymałość betonu)

1 Brookfield, LV3, 30 RPM, 23°C
2 ISO 2811-1, + 23°C/50% R.H
3 DIN 53505, 14 days / +23°C / 50% R.H
4 ISO EN 196-1, 28 days / + 23°C / 50% R.H
5 EN 4624, 14 days / + 23 °C / 50% R.H

PACKAGING:

Component A+B: 7,5 kg and 15 kg sets
Component A:
6,25 kg and 12,5 kg bucket
Component B:
1,25 kg and 2,5 kg bottle

FORM:

Component A: Liquid, coloured
Component B: Liquid, transparent, clear to slightly yellow

Almost all **RAL, NCS AND SIKKENS** colours are available. Other colours available on request.
Application at different stages and combining different batch numbers in one project could result in slight colour differences, to avoid this:

Order all materials for your project at the same time.

In direct sunlight discolouration and colour deviation can occur, this will not affect the functionality or performance of the coating.

CONSUMPTION:

Coating System	Product	Consumption
Levelling (optional)	Cementitious SL Underlayment	6 – 20 kg/m^2
Primer	Z Slow / Europox SRL SL-EP Scratchcoat Primer GW	125 – 250 g/m^2 150 – 500 g/m^2 100 – 150 g/m^2
Scratch Coat (optional)	Z Slow + Filler SL-EP Scratchcoat	500 – 1000 g/m^2 500 – 1000 g/m^2
Wearing course	**Europox SRL**	**200 – 500** g/m^2
Topcoat (optional)	Coating PU MG Matt or Satin Gloss	150 – 175 g/m^2

Higher temperatures generally give a better flow, better defoaming properties and less chance on carbamation.

SUBSTRATE PREPARATION:

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
The substrate must be sound and of sufficient compressive strength (minimum 25 N / mm^2), with a minimum pull-off strength of 1,5 N/mm^2.
The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, previous coatings and surface treatments.
Weak concrete and loose cementitious levelling must be removed and surface damage such as blowholes and voids must be repaired with Quartzline Epoxygel and then primed again.
The concrete or screed substrate has to be primed. If in doubt, apply to a test area first.
Uneven substrates must be levelled in order to achieve an even substrate. Use Quartzline Cementitious SL Underlayment or Cementitious SL Constructive. Please see respective Technical Data Sheets for more information.
All dust, loose and friable material must be fully removed from all surfaces before applying the product, preferably using a brush and/or industrial vacuum cleaner.

APPLICATION CONDITIONS:

Substrate temperature:	Minimum 10°C, maximum +30 °C
Ambient temperature:	Minimun 10°C, maxium +30 °C
Relative air humidity:	Maximum 75% R.H.
Moisture content substrate: (Test using a carbide measurement).	< 4% moisture
Dew point:	Beware of condensation!

The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or efflorescence on the floor finish.

REMARKS:

- Do not apply the Europox SRL on substrates with rising moisture.
- After application Europox SRL must be protected from damp, condensation and
- water for at least 24 hours.
- For areas with limited exposure and normal absorbent concrete substrates priming is not necessary for roller coating systems.
- Uneven or dirt covered substrates should not be treated with thin coatings. Both substrate and adjacent areas should always be thoroughly prepared and cleaned prior to application.
- Mixed materials must be processed immediately as flow and defoaming will be reduced when pot-life expires.
- The incorrect assessment and treatment of cracks may lead to a reduced service life andreflective cracking.
- For exact colour matching, ensure that the Europox SRL is applied in each area from the same control batch number.
- Under certain conditions, underfloor heating combined with high point loading, may lead to imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both CO_2 and water vapour which may adversely affect the finish. For heating, only use electric powered warm air blower systems. Do not use any underfloor heating during application or for the first 48 hours, after this period you may increase the temperature gradually.

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CURING TIME:

Pot-life	40 minutes @ 10°C 25 minutes @ 20°C 15 minutes @ 30°C
Foot traffic @ 20°C	24 hours
Light traffic @ 20°C	48 hours
Fully Cured @ 20°C	7 days

Check the R.H. and dew point before application.

HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent product safety data sheet consult, regarding the physical, ecological, toxicological and other safety-related data.

VALUE BASE:

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

CLEANING/MAINTENANCE:

To maintain the appearance of the floor after application, Europox SRL must be kept clean and all spillages removed immediately.
The floor must be cleaned regularly using a rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc.
Always use suitable detergents and waxes.
Clean the floor with tepid water. Never use hot water (warmer than 40 °C).

LEGAL NOTICE:

This information, and in particular the recommendations related to the application and end use of Eurostep products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Eurostep's recommendations.
In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.
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For more information about the Eurostep products or for technical advice, please contact:

Eurostep Poland Sp. z o.o.
Tymiankowa 37/39
95-054 Ksawerów
Poland

Tel.: +48 609 222 050

www.Eurostep.pl