
NEW WORK/REPAINT: NEW WORK –INTERIOR
Urban and Industrial Atmospheres
Good chemical resistance. Production areas with high humidity – flooring – moderate traffic areas

SUBSTRATE: Concrete

PAINT FINISH: Plascon Plascoguard Gehopon 7 Sealer **PRODUCT CODE:** EPD 1157/1159
Non-Skid Epoxy Floor Coating
A medium build Epoxy Floor Coating provide good chemical resistance and a non-skid finish

COLOUR: Plascon PC Colour System (SANS; BS & RAL Standards)

ENVIRONMENT: **The Maintenance Cycle is a guide but can vary due to micro-climate changes identified on the site which will affect the longevity of the coating system**

As per ISO 12944: Maintenance Cycle (Years)

C3 - Industrial 4

| Plascon Coating System | Application Method | Spreading Rate m ² /ℓ | WFT/DFT μm (min & max) | Reducer/ Cleaner | Overcoating time h @ 23 °C | Technical Data Sheet No | TVOC g/ℓ |
|--|--|--------------------------------------|------------------------------|-----------------------------------|----------------------------------|-------------------------------|-------------|
| Sealer Plascon Plascoguard Gehopon 7 Sealer (GW 7) Mixing ratio: 5:1 by mass | B, R (mohair roller) | @ 18 μm Theo: 11.7 Prac: 5.7 | WFT 71- 95 DFT 15-20 | GP Epoxy Reducer (EPT 1) | 12 | GW 7 | 660 |
| 1st Final Coat: Plascon Epoxy Floor Coating EPD 1157Green EPD 1158 Navy EPD 1159 Grey KAT 512 Hardener) Mixing Ratio: 1:1 by volume | Airless Spray, Conventional Pressure Pot Spray or Brush | 5.8 m ² /ℓ @ 50 μm DFT | DFT 30 – 50 WFT 57 – 96 | EPT 1 | Min 16 hrs Max 72 hrs | EPD 1157 & 1159 | |
| 2nd Final Coat: Plascon Epoxy Floor Coating EPD 1157Green EPD 1158 Navy EPD 1159 Grey KAT 512 Hardener) Mixing Ratio: 1:1 by volume | Airless Spray, Conventional Pressure Pot Spray or Brush | 5.8 m ² /ℓ @ 50 μm DFT | DFT 30 – 50 WFT 57 – 96 | EPT 1 | Min 16 hrs Max 72 hrs | EPD 1157 & 1159 | |

SURFACE PREPARATION:

- ^ Surfaces must be clean, sound and dry before coating.
 - ^ Concrete must cure for a minimum of 28 days.
 - o **Floor strength:** Check strength of floor using a Schmidt hammer or equivalent. Floor strengths vary between 25-40 MPa. Hollow sections and laitance need to be identified and rectified.
 - o **Oil contamination:** Remove by applying Plascon Aquasolv Degreaser (GR 1) with a bristle brush or broom to affected areas. Allow to react for 20 minutes. Scrub off thoroughly with tap water and brush/broom to remove all traces of oil and 'Plascon Aquasolv Degreaser (GR 1). Test surface to be water-break free. If not, repeat the cleaning process.
 - o **Heavy oil contamination:** Use Aqua Fortris Clean and Capture System to remove oils.
NB: Drill a core in heavily contaminated floor areas to measure depth of oil penetration. Take appropriate action to remove the problem.
 - ^ High speed diamond grind surface to remove laitance. Vacuum entire area. Ensure surface is clean, dry and sound.
 - ^ Moisture levels must not exceed 5 % when using a Doser Hygrometer B 4 scale (or equivalent) before painting.
 - ^ Masterplate Floors
 - o Remove surface contaminants using Plascon Metalcare Aquasolv Degreaser (GR 1) in conjunction with bristle scrubbing brushes or brooms, alternatively Scotch Brite pads. Rinse thoroughly with tap water using brooms, brushes or hydroblast to remove all traces of Plascon Metalcare Aquasolv Degreaser (GR 1) and achieve a water break-free surface. Allow to dry.
 - o High speed diamond grind floor to create a key and ensure it is rust free. Vacuum to remove all dust. Moisture level must not exceed 5 % when measured with a Doser Hygrometer B 4 scale (or equivalent) before painting.
 - o NOTE: WHEN PRIMING MASTERPLATE FLOORS USE PLASCON EPIWASH STRONTIUM CHROMATE PRIMER (AW 255) IN PLACE OF PLASCON PLASCOGUARD GEHOPON IMPREGNATION SEALER (GW 7).
 - ^ Expansion Joints
 - o Expansion joints need to be cut and filled or raked out and filled with Sika Pro (3WF) flexible polyurethane sealant.
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APPLICATION FOR PRIMER AND FINAL COATS

Sealer Coat

Mix the base and hardener thoroughly in a 5:1 ratio by mass before use.

- ^ Apply one coat of Plascon Plascoguard Gehopon 7 Sealer (GW 7) by mohair roller at a rate of not more than 7m²/ℓ to achieve a continuous film. Allow 12 hours to dry. Any glossy patches should be sanded to a matt finish.

Finishing Coats

- ^ Premix both components of the Plascon Epoxy Floor Coating (EPD 1157 Green, EPD 1158 Navy or EPD 1159 Grey base/KAT 512 Hardener) using a power mixer for 3 minutes and then apply two coats by mohair roller to a minimum DFT of 30 -50 µm per coat @ a practical spread rate of 7 m²/ℓ @ 50 µm. **(Mixing ratio is 1:1 by volume)**
- ^ Allow a minimum of 16 hours curing @ 25 °C between coats.
- ^ Full cure requires 7 days.

TABLE REFERENCES:

- ^ Technical Data Sheet (TDS): User must always ensure that latest issue is used.
- ^ B = Brush (ready for use), R = Roller (synthetic, min. 10mm pile) (ready for use), S = Airless spray (ready for use).
- ^ Theoretical spreading rate quoted is for smooth non-porous substrates and does not include allowance for surface profile, porosity, wastage and uneven film application. Suitable allowance should be made according to type of work, method and skill of applicator. Practical spreading rate quoted is an average guide only - actual must be determined by user.
- ^ Overcoating times are at 23 °C and 75 % relative humidity. Longer times must be allowed under cooler and moist conditions. DO NOT paint during inclement weather and when temperature is below 10 °C.
- ^ Fading and chalking will occur to a greater or lesser degree depending on pigmentation and generic binder type.
- ^ NB: Life expectancy may vary, depending on environmental conditions and stresses, within the macro/micro climate of the project.

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