

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 7100 Epoxy /PEH 77
(A high gloss, tough solvent borne epoxy with good chemical spillage resistance)

PRODUCT CODE: PEX 7100 Series

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

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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 Finishing Coat: Plascon Plascoguard 7100 Series (PEX 7101 White PEX 7102 Black PET 71015 Pastel PET 71025 Deep PET 71035 Transparent Base PEH 77 Hardener) Mixing Ratio:4:1 by volume	Airless Spray, Conventional Pressure Pot Spray, Brush or Roller	12.2 m ² /ℓ @ 45 μm DFT	DFT 40 – 50 WFT 72 – 90	EPT 2	Min: 24hrs Max: 4 weeks	PEX 7100	
2nd Finishing Coat: Plascon Plascoguard 7100 Series (PEX 7101 White PEX 7102 Black PET 71015 Pastel PET 71025 Deep PET 71035 Transparent Base PEH 77 Hardener) Mixing Ratio:4:1 by volume	Airless Spray, Conventional Pressure Pot Spray, Brush or Roller	12.2 m ² /ℓ @ 45 μm DFT	DFT 40 – 50 WFT 72 – 90	EPT 2	Min: 24hrs Max: 4 weeks	PEX 7100	

SURFACE PREPARATION:

- ^ Surfaces must be clean, sound and dry before coating.
 - ^ Concrete must cure for a minimum of 28 days.
 - **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.
 - **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.
 - **Heavy oil contamination:** Use Aqua Fortis 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
 - 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.
 - 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.
 - 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
 - Expansion joints need to be cut and filled or raked out and filled with Sika Pro (3WF) flexible polyurethane sealant.
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SURFACE PREPARATION:

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 no more than 7m²/ℓ to achieve a continuous film. Allow 12 hours to dry. Any glossy patches should be sanded to a matt finish.

1st Finishing Coat

- ▲ Premix both components of the Plascon Plascoguard 7100 Series (PEX 7101 White/PEX 7102 Black/PET 71015 Pastel/ PET 71025 Deep/PET 71035 Transparent Base/PEH 77 Hardener) using a power mixer for 3 minutes and then apply one coat by airless spray, conventional spray or brush/roller to a minimum DFT of 40–50 µm or WFT of 72–90 µm @ a theoretical spread rate of 12.2m²/ℓ @ 45 µm DFT.
- ▲ Allow a minimum of 24 hours curing @ 23 °C prior to over coating.

2nd Finishing Coat

- ▲ Premix both components of the Plascon Plascoguard 7100 Series (PEX 7101 White/PEX 7102 Black/PET 71015 Pastel/ PET 71025 Deep/PET 71035 Transparent Base/PEH 77 Hardener) using a power mixer for 3 minutes and then apply one coat by airless spray, conventional spray or brush/roller to a minimum DFT of 40–50 µm or WFT of 72–90 µm @ a theoretical spread rate of 12.2 m²/ℓ @ 45 µm DFT.
 - ▲ Allow a minimum of 24 hours curing @ 23 °C prior to over coating.
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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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