Technical
Data Sheet
December 2023

Gecko® Epoxyflex HP

Premium 100% solids 2 part high performance epoxy topcoat.

DESCRIPTION

Gecko® Epoxyflex HP is a premium quality, interior, 100% solids, high performance epoxy topcoat, formulated to deliver superior substrate protection.

Gecko® Epoxyflex HP is available in a range of colours to suit any project.

With the inclusion of Gecko® slip resistive aggregates, Gecko® Epoxyflex HP provides high performance safety surfaces for foot and vehicular traffic. (See Gecko® non-slip systems guide for more information)

ADVANTAGES

Gecko® Epoxyflex HP delivers the following advantages:

- Attractive smooth gloss finish.
- Excellent substrate adhesion.
- Highly durable.
- Premium chemical resistance.
- Seamless application for easy cleaning and the prevention of bacterial growth.
- Remains flexible to accommodate vibrations and temperature change deformation.
- Solvent free and low odour.
- Conforms to AS4674 – Design, construct and fit-out of food premises.

AREAS OF USE

Gecko® Epoxyflex HP is suitable for use in the following areas:

- Interior application
- Floors, wall and ceilings
- Wet areas
- High durability flooring
- Metal protection
- Kitchens, factories etc.

SUBSTRATES

Gecko® Epoxyflex HP is suitable for application on:

- Concrete
- Metal (suitably prepared)

TECHNICAL DATA (@ 25°C)

Number of Coats:	2
Coverage: (per coat)	5m² / L - 200µm WFT / DFT
Pot Life:	± 30 minutes
Touch Dry:	± 5 hours
Recoat Window:	Between 6 - 24 hours max.
Foot Traffic:	12 - 24 hours
Full Cure:	7 days
Colour:	Tintable – 10 standard colours, plus custom options
Clean Up:	Xylene
Shelf Life:	12 months

PERFORMANCE DATA

Compressive Strength (ASTM D 695-85):	74 MPa
Tensile Strength (ASTM D 638-86):	55 MPa
Flexural Strength (ASTM D 790-86):	97 MPa
Hardness Shore D (ASTM D 2240-86):	79
Abrasion Resistance (ASTM D4060-90): (cycles)	0.052g / 1000

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CHEMICAL RESISTANCE DATA

	Reagent	Resistance Rating
Acids	Hydrochloric Acid 10%	A
	Hydrochloric Acid 32%	B
	Sulphuric Acid 70%	A
	Sulphuric Acid 98%	D
	Acetic Acid 10%	B
Alkalis	Sodium Hydroxide 10%	A
	Sodium Hydroxide 50%	A
	Ammonium Hydroxide 30%	A
	Potassium Hydroxide 25%	A
Solvents	Xylene	B
	Methyl Ethyl Ketone	C
	Diesel	A
	Ethanol	A
Other	Water Spotting	A

Resistance Ratings:

A – Excellent Suitable for long-term contact.

B – Good Suitable for short-term contact, with spills removed within 3 days.

C – Moderate Suitable for very short-term contact, with spills removed within 12 hours.

D – Low Contact not recommended.

ANCILLARY PRODUCTS

- Gecko® Primers.
- Gecko® Polyurethane and Polyaspartic topcoats
- Gecko® Colour Tints
- Gecko® Slip Resistive Aggregates
- Gecko® Coving & Crack Repair

SUBSTRATE PREPARATION

Full substrate preparation instructions can be found at www.crommelin.com.au/full-instructions/

- Concrete must be a minimum of 28 days old. If concrete is younger than 28 days, refer to Gecko® Primer Surface Tolerant.
- Concrete surfaces should be mechanically prepared and have a rough, open finish.
- Surfaces must be sound and crack free. Repair all unsound areas with a suitable repair compound, installed as per manufacturer's instructions. Refer to Gecko® Coving & Crack Repair.
- Surfaces must be level. Grind high spots and fill low spots with a suitable levelling compound, installed as per manufacturer's instructions.
- Surfaces must be clean and free from dust, grease, food fats, curing compounds, release agents, loose particles, efflorescence, concrete laitance or any other contaminants. Curing compounds, sealers and other laitance are best removed by vacuum shot-blasting, scarifying or sand blasting.
- Surfaces must be dry (maximum 5% moisture content). The use of a professional grade moisture meter is recommended. If moisture content is over 5% refer to Gecko® Primer Surface Tolerant.
- **Refer to NACE No.6/SSPC-SP13 for full concrete preparation details.**
- Metal surfaces must be dry, rust free and clean from dust, grease, oils or any other contaminants. Areas of rust should be mechanically removed by abrasion.
- **Refer to AS1627.0 for full metal preparation details.**

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APPLICATION CONDITIONS

- **Caution:** Application in low temperatures or high humidity is not recommended.
- Substrate temperature should be a minimum of 5˚c above dew point.
- Protect the coating from moisture during the curing period.
- Application temperature between 10°c and 30°c.
- Application outside of these parameters may result in coating discolouration or blooming, however coating performance will not be affected.
- During periods of extreme cold or heat, cans may be warmed or cooled prior to mixing to optimise viscosity.
- For cold conditions, refer to **Gecko® Epoxyflex Rapid.**

APPLICATION TOOLS

- Good quality brush, short nap roller or squeegee.
- In cooler conditions, squeegee application is recommended instead of roller application.
- Use of spiked shoes is recommended.

PRIMING

- Surface priming is recommended. For concrete, refer to:

Gecko® Primer HP

Gecko® Primer Rapid.

Gecko® Primer Surface Tolerant

- Primer must be over-coated with suitable topcoat within recommended over-coating window.

COLOUR TINTS

- Light Grey.
- Dark Grey.
- White.
- Blue.
- Red.
- Mid-Grey.
- Koala Grey.
- Green.
- Yellow.
- Black.

PRODUCT PREPARATION

- Mix part A thoroughly before adding part B.
- Add all of part B to all of part A, scraping the can to make sure that no material is left un-mixed.
- Only mixing full kits is recommended.
- If part kits are required, ensure that the correct mixing ratio is adhered to.
- Mix part A and B thoroughly, using a slow speed drill and spiral mixing paddle, at a maximum of 500 rpm for at least 3 minutes. Avoid air entrapment.
- If a colour is required, add the required tint to the pre-mixed part A and part B, scraping the can to make sure that no material is left un-mixed. Refer to Gecko® Colour Tints data sheet for dosage rates or refer to your Crommelin® representative.
- Pour homogenously mixed material into a suitably clean paint tray to maximise pot life.
- Do not thin.

APPLICATION

Full application instructions can be found at www.crommelin.com.au/full-instructions/

- Apply evenly to suitably prepared and primed surface by brush, short nap roller or squeegee as appropriate.
- Ensure that topcoat 1 is applied to primed surface within primer over-coating window.
- Allow sufficient time for topcoat 1 to cure before applying topcoat 2.
- Ensure that topcoat 2 is applied within topcoat over-coating window – maximum 16 hours.
- If longer than 16 hours, lightly abrade surface with coarse sandpaper and wipe clean before over-coating.

CLEAN UP

- Uncured material may be removed with Xylene.
- Cured material may be removed mechanically.

MAINTENANCE AND REPAIR

- Remove any spills immediately.
- Regularly clean coated areas with a pH neutral, mild detergent solution and rinse thoroughly.
- Any areas of damage must be repaired immediately.
- Areas of damage may be repair by sanding the affected area to produce a mechanical key and re-application of suitable topcoat as required. Feather edge repair patch to minimise repair visibility.

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SLIP RESISTIVE FINISHES

For slip resistive finishes according to AS4586-2013 – Classification of Pedestrian Surface Materials. (Pendulum SRV – Slider 96).

- Prepare surface as per Gecko Primer substrate preparation instructions.
- Choose Gecko Epoxy Primer to suit the project, apply as per technical data sheet and allow to dry.
- Apply suitable Gecko Epoxyflex top coat 1within primer over-coat window at 5m² / L.
- Whilst wet, broadcast to refusal chosen Gecko Slip Resistive Aggregate into Epoxyflex top-coat 1 and allow to dry.
- Thoroughly remove all non-bonded Gecko Slip Resistive Aggregate before the application of Gecko Epoxyflex top-coat 2.
- Apply Gecko Epoxyflex top-coat 2 within Epoxyflex over-coat window at the required coverage rate to achieve the desired P rating.
- Allow the system to fully cure before putting the surface into service.

AS4586 Classifications	
Class	**SRV**
P5	>54
P4	45 – 54
P3	35 – 44
P2	25 - 34
P1	12 - 24
P0	<12

Gecko Epoxyflex Top-coat 2 Coverage Rate	Gecko Slip Resistive Aggregate		
	Silica <300um	**Fine (SC) Silica**	**Coarse (0.2 – 0.5) Aluminium Oxide**
6m² / L	P5 – high (MSRV 68)	P5 - high (MSRV 68)	P5 – very high (MSRV 77)
5m² / L	P4- medium (MSRV 50)	P5 - high (MSRV 70)	P5 – very high (MSRV 73)
4m² / L	P3 – medium (MSRV 40)	P5 - high (MSRV 69)	P5 - high (MSRV 71)
3m² / L	P2 – high (MSRV 34)	P5 - low (MSRV 57)	P5 - high (MSRV 68)

*MSRV: Median Slip Resistive Value

Note: Slip ratings are indicative of systems. A test patch must be carried out on site to provide project specific slip rating data.

Approximate P/R rating comparisons: P5-R13 / P4-R11 / P3 – R10.

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PRECAUTIONS

- Gecko® Epoxyflex products are not UV stable and will yellow or colour fade with UV exposure.
- For exterior and clear applications, refer to Gecko® Polyurethane and Polyaspartic Systems.
- A test patch is recommended prior to full application to assess colour suitability, coating adhesion and slip-resistive finish.
- Final slip-resistive rating is determined by substrate profile and application rate. Slip-resistive ratings may only be achieved by measurement on site.

WARRANTIES

A standard warranty period of 10 years is offered for Gecko® coatings, when applied as per technical data sheet and maintained as per appropriate maintenance schedule.

Extended warranties are available for project specific applications. Please contact your Crommelin® representative, or the Crommelin® technical support team for detailed specifications applicable to your project and warranty requirements.

SAFETY AND FIRST AID

Gecko® Epoxyflex HP Safety Data Sheet is available from Crommelin® upon request.

Safety

- Ensure good ventilation and avoid breathing vapours.
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing.
- Keep out of reach of children.
- Keep container sealed when not in use.
- Do not swallow.

First Aid

- If poisoning occurs, contact a doctor or poisons information centre: Ph. 13 11 26.
- If swallowed, do not induce vomiting. Give a glass of water to drink.
- If in eyes, hold eyes open and flood with water for at least 15 minutes.
- If not breathing, apply artificial respiration.

TRANSPORT AND STORAGE

- Part A: Clear Grey Resin
- Part B: Clear Amber Resin
- Refer to SDS for DG information
- Cool and dry storage
- Size: 8L / 16L Kit
- Weight: 9.7KG/19.4KG

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Customers need to undertake their own assessment to determine the suitability of a product for the intended use. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.