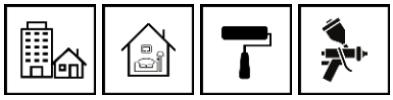
Technical Data Sheet

SWISSGRIP NON-SLIP COATINGS

Swiss GriP® Aqua Floorline

Dual-component-concrete floor coating
Water-based polyurethane coating with semi-gloss finish

Swiss GriP Aqua Floorline offers outstanding mechanical and chemical resistance and is UV-resistant. Both components are low odor and VOC-free. Only dilute with water.



Description

Swiss GriP Aqua Floorline is a floor coating system for interior and exterior areas. It can be used on floors off mineral substrates such as industrial halls, stairs, cellars, commercial kitchens, passageways, corridors, etc. It can also be used on concrete walls (interior and exterior). Swiss GriP Aqua Floorline is available with a P3 and P4 slip-rating.

Features

- High Build, dual-component polyurethane coating
- Water based, low odor and VOC-Free
- Grey, semi-gloss finish
- P3 and P4 slip-rating
- UV-resistant, non-yellowing (does not change colour like epoxies do)
- Oustanding adhesion
- Can also be used as a durable, protective coating for walls

Benefits

- Apply by roller or airless sprayer
- No primer required
- Dilutable with water. No thinners required
- For interior and exterior applications
- Meet and exceed safety standards for slip resistance (NZS 4586-2013)
- Non-flammable / non-hazardous
- Apply two coats: First coat - which is diluted with water - acts as primer, second coat is finish coat. Third coat might be required, depending on surface porosity and application method.

Precautions And Limitations

Read Data Sheet, Material Safety Data Sheet, and any precautionary labels on containers.

Do not apply in exterior situations when rain threatens. Do not apply when relative humidity is above 80% or is likely to go above 80% shortly after the application has been completed.

Practical spreading rates will vary depending on such factors as method and conditions of applications and surface roughness and porosity. Suitable for application over bare substrate and water-based coatings. For further advice contact SlipSafe New Zealand on 0508 754 778 or info@slipsafe.co.nz.

Performance Guide			
Weather	Excellent resistance to exterior exposure	Salt	Unaffected by splash and spillage of neutral salt solutions.
Heat Resistance	Up to 120°C dry heat	Water	Resists rain and condensation. Not recommended for immersed exposure.
Solvent	Unaffected by splash and spillage of alcohols and similar solvents	Abrasion	For low, medium and high pedestrian traffic
Acid	Not recommended where splash or spillage may occur.	Alkali	Not recommended where splash or spillage may occur.

Typical Properties			
Gloss Level	Semi-gloss	Thinner	Water. See dilution instructions
Colour	Light Grey Other colours available upon request	Mix Ratio	5 : 1 (weight) Part A = 5 and Part B = 1
Components	2	Potlife	Circa 4 hours at 20°C Only mix as much as immediately required
Toxiciy	No adverse health effects expected if the product is handled in accordance with the directions on the Safety Data Sheet	V.O.C. Level	5 g/L
Shelf Life	1 year in an unopened can. Protect from frost.		
Touch Dry	60 min		
Clean up	Water		
Application Method	Roller, conventional and airless sprayer Contact Swiss GriP for spray application instructions		
Application Conditions	 Air Temp. Substrate Temp. Relative Humidity Concrete Moisture	**Min.** 15°C 15°C	**Max.** 35°C 35°C 75% <10%

Application Guide	
Surface Preparation	New concrete must cure for a minimum of 28 days before applying Swiss GriP Aqua Floorline. Ensure surface is thoroughly dry before application (< 3% building material moisture). The surface must be structurally sound and the substrate compressive strength should be at least 25MPa. The substrate tensile strength should be at least 1.5N/mm². All non-structural cracks and holes need to be repaired. In general, the surface to be treated needs be clean and free of all traces of loose material, dirt, debris, oil, grease, old coatings, curing compounds, release agents, laitance, dust and other contaminants.

	All new or old concrete surfaces should be prepared by mechanical grinding, abrasive blasting, etching, or any other suitable preparation/cleaning methods. Always check if all traces of oil and other contaminations have been completely removed before applying Swiss GriP Aqua Floorline. Substrate must be sealed off from rising moisture. Apply sample area in case of doubt.
Application Procedure and equipment	Use a lint free and high-quality floor roller to apply the product. Swiss GriP Aqua Floorline is applied in two stages. The first layer acts as the "primer" layer and the second coat as the finish layer. **Dilution Rates** Dilute first "prime" coat with 20-25% of water (mixture of part A and Part B) for new applications.Dilute second finish coat with 0-10% of water. For renovations (previously applied Swiss GriP Aqua Floorline projects) dilute first "primer" layer with 0-10% of water. Dilute the second layer with 0-10% of water. **Mix ratio**: 5-1. Part A = 5 and Part B is 1. Calculation: Multiply the amount of Part A poured in mixing cup/bucket by 0.2. The result is the amount of Part B that needs to be added. **Application** Do not apply a thick layer. A wet film thickness above approx. 150µm can cause "CO2-bubbles" in the coating. **Prime Coat:** Mix the coating according to the 5-1 mixing ratio. Dilute the mixture in accordance with the above instructions with water. Apply the first layer to the surface. Only apply second layer after first layer has dried (within 24 hours after applying the prime coat). **Finish Coat**: Mix coating according to the 5-1 mixing ratio. Add in Swiss GriP Non-Slip particles in the mixture (between 2 and 3% by weight) and dilute in accordance with the above instructions. The finish coat should be applied evenly. Apply in sections in a straight line and always finish in the same direction (away from the applicator). Do not use W or N shaped movements. Avoid double layers to avoid a build up of the non-slip particles. **IMPORTANT**: Do not add more than 3% of the Swiss GriP Non-Slip particles to the mixture. Adding more particles will not increase the slip-rating. Instead, it will lower the rating. • Use mixing bucket/cup and an electronic precision scale. • Stir Part A thoroughly before use with an electrical mixer. Use a separate and clean mixer to stir the mixture of Part A and B thoroughly before use. • Only mix as much coating as will be immediately required. Securely fasten the lids of unused product to ensure it will not solidify. • Practical spreading rates will vary depending on such factors as method and conditions of applications and surface roughness.
Curing	At 20°C and 65% relative humidity and well-ventilated areas: Dust dry: ca. 2 hours Re-coatable: ca. 24 hours Trafficable: ca. 24 hours Full curing time: ca. 3-7 days, depending on load, humidity, and temperature
Theoretical spreading	The spreading rates depends on the porosity (absorbing capacity) of the substrate, as well as the application method and conditions. The theoretical spreading rate is circa 4-6m²/kg per coat.
Dilute	Tap water, max. 25%

Chemical resistance	Chemical	After 1 hour	1 day	1 week	1 month	3 months
	Hydraulic oil	5/2	5/2	5/2	5/2	5/2
	Motor oil	5/2	5/2	5/2	5/2	5/2
	Petrol	5/2	5/2	5/2	4-5/2	4-5/2
	Diesel	5/2	5/2	4-5/2	4-5/2	4-5/2
	Water	5/2	5/2	5/2	5/2	5/2
	Salt water	5/2	5/2	5/2	5/2	5/2
	Cement water	5/2	5/2	4-5/2	4-5/2	4-5/2
	Hydrochloric acid (10%)	5/2	5/2	4-5/2	2-1/2	2/1
	Sodium hydroxide (10%)	5/2	5/2	4-5/2	4-5/2	4-5/2
	Xylene	5/2	5/2	5/2	5/2	5/2
	Bleach (5%)	5/2	5/2	4-5/2	4-5/2	4-5/2
	Paint thinner	5/2	5/2	5/2	5/2	5/2
	Assessment	**Optical** 5 = no change 1 = coating destroyed		**Mechanical** 2 = no change 0 = scratchable till surface		

Disposal	DO NOT REUSE CONTAINER. Do NOT pour waste material down the drain. Keep unwanted paint in sealed containers for disposal via special chemical waste collections including PAINTBACK. Alternatively waste paint should be brushed out onto newspaper and allowed to dry before disposal via domestic waste collections. For more information on responsible disposal ofpaint and packaging visit the Australian website at paintback.com.au or in New Zealand at paintback.co.nz		
Handling	As with any chemical, ingestion, inhalation and prolonged repeated skin contact should be avoided by good occupationalpractice. Always wash hands before smoking, eating, drinking or using the toilet.		
Other	For detailed information refer to the current Safety Data Sheet available through customer service: info@slipsafe.co.nz		
Shipment	Not dangerous goods, no special transport requirements.		
Flash Point	N/A	Dangerous Goods Class	N/A
UN Number	N/A		
Disclaimer	The data provided within the Swiss GriP Aqua Floor Coating is correct at the time of publication, however it is the responsibility of those using this information to check that it is current prior to specifying or using any of these coating/product systems.: Any advice, recommendation, information, assistance or service provided by any of the divisions of Swiss GriP Australia Pty Ltd or its related entities (GriP Safety Coatings AG) in relation to goods manufactured by it or their use and application is given in good faith and is believed by Swiss GriP to be appropriate and reliable. Coating/product systems can be expected to perform as indicated on the spec sheet so long as applications and application procedures of the individual products are followed as recommended on the appropriate Product data Sheet. Customers are encouraged to make their ownenquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use. A warranty can only be given for the consistently high quality of our products. All previous versions ofthis data sheet are no longer valid.		