



## Technical Data Sheet - **Surface™P5**



**Surface™P5** is a one-component eco-cementitious polymer surface render/membrane. Once mixed with water, it provides a high-performance flexible render and key coat bonding bridge for application to porous substrates. It is used as a P5 anti-slip base or as an exceptional adhesive prime coat to Cementitious substrate.

### Uses

To provide a cementitious key coat bonding bridge for both porous and non-porous surfaces—including metal, Colorbond, PVC (no loads), concrete, and AAC—where enhanced adhesion, anti-slip properties, and flexibility are required. This high-performance coating serves as an ideal base for renders, paints, tiles, and stonework, or as a durable, cost-effective surface protection solution designed to last for years.

### Advantages

- Provides a base coating suitable for substrates subject to Thermal Movements.
- Environmentally friendly and suitable for application on poorly ventilated areas.
- Acts as an anti-fracture membrane between the substrate and other finishing coats.
- Does not require scuffing or sandblasting.
- **Surface™ products** are also reduced in ChromiumVI

### Application Instructions

Surface preparation: The surface to be coated must be sound, clean and free from all traces of paint, dust, grease, efflorescence, loose particles, gypsum, plaster and mould release compounds. Holes, voids, etc, should be filled and prepared for overcoating prior to the application.

Apply Surface™P5 by Sprayer (Wagner Pro 1030), Texture, Foam or 10 NAP roller or broom/brush spreading a homogeneous and continuous coating of around 1-2 mm per uptake. For large areas, Surface™P5 can also be sprayed. On fissures, concrete joints, corners and cracks, once repaired, apply a first coat of Surface™P5 @ 1.4-1.6 kg/m<sup>2</sup> and while the product is still fresh, place a mesh 50-200mm if needed. Drying time between two Surface™P5 layers is 30-60 minutes, depending on the environment. On very dense surfaces such as steel or PVC the drying time can be much longer. Always test first on a sample surface.

### Mixing

A 20kg bag of Surface™P5 requires from 4-6 litres of water, depending on application, temperature and substrate conditions. Pour the required amount of water into a clean container, slowly add **Surface™** mixing by a slow-speed electric drill (400-600rpm) fitted with a disc mixer for about 3-5 minutes until achieving a lump-free and homogeneous mix. Allow resting for 2-3 minutes to fully wet out the powder, and then mix again briefly, but do not add more water. Do not mix products that cannot be applied within 20-30 minutes.



## Technical Data Sheet - **Surface™P5**

### **Curing**

Curing time for putting into service is a minimum of 3 days, depending on the environment; to maximise the performance, a 7-day curing time would be advisable, at 20 °C and 50% relative humidity.

### **Loading**

Do not glue any heavy tiles, stones, cladding, etc. to the surface exceeding 20kg/m<sup>2</sup>. Any glue needs proper application (do not spot glue) use fasteners embedded into the substrate.

### **Cleaning**

All tools must be cleaned with water after use. Once it cures, Surface™P5 can only be removed by mechanical means.

### **Storage**

Twelve months in its original unopened packaging, in a dry and covered place protected from humidity, frost and direct sunlight, at a temperature above 5 °C.

### **Important cautions**

Do not add cement, admixtures, sand or any other compound.

In case of doubts, please contact the technical service of **Surface™**.

### **Safety and Health**

Surface™P5 is an abrasive cementitious compound. Protective rubber gloves and goggles must be used during application. In case of eye contact, rinse thoroughly with clean water, but do not rub. In case of skin contact, wash affected areas with soap and water. If irritation continues, seek medical attention. Please observe the standards for handling cement products as per Australian work safety rules.

### **Product characteristics**

Density: 1.4-1.6 g/cm

Drying time between coats at 20C/50% humidity - 6hrs; curing time - 3 days; water immersion for a minimum of 7 days. Mechanical load = covering with gravel, renders, plasters, tiles. For in-water usage, please contact your Surface™ supplier or contact mailbox@fluxdesignaustralia.com

Crack bridging >0.8mm

Adhesion @ 28 days – concrete up to 5.9+ MPa – steel 5.3+ MPa

Consumption: 1.5-2 kg/m<sup>2</sup>, 8-12m<sup>2</sup>/20kg bag.

The figures are for guidance only and may vary depending on porosity, substrate conditions, and preliminary on-site exacttests to ascertain the total total under job-site conditions.



## SURFACE™ Coating Solutions - Product Information Sheet

<b>Description:</b>	<ul style="list-style-type: none"> <li>• <b>SURFACE</b> is a specially blended cement/polymer based, designed to be applied over concrete, metal, wood, stone and other surfaces.</li> <li>• <b>SURFACE</b> protective coating is ecological, economical anti slip, reflects heat, wind and hail proof, U.V. resistant, resists mold and can be colored differently.</li> <li>• <b>Storage:</b> in dry conditions, do not allow to freeze.</li> </ul>
<b>Surface Preparation:</b>	<ul style="list-style-type: none"> <li>• Ensure that the surface is clean, rinsed and dry prior to applying <b>SURFACE</b>.</li> <li>• The surface must be free of debris, dust, dirt, grease, rust, damaged paint and other contaminants prior to applying membrane.</li> <li>• If required, utilize a pressure washer or grinder to clean the surface.</li> <li>• <b>SURFACE</b> can be applied over rust. Remove any loose rust properly prior to applying <b>SURFACE</b>. This can be achieved by pressure washing and or mechanically such as a grinder.</li> </ul>
<b>Mixing:</b>	<ul style="list-style-type: none"> <li>• ~ 6 liter (S) H<sub>2</sub>O should give a uniformed mix for the usage with a roller or Sprayer. Mix with electrical drill at 400-600 rpm.</li> <li>• Gradually add powder (20 kg bag) while blending until desired consistency is achieved.</li> <li>• Mix materials with a drill thoroughly for 3-5 minutes.</li> <li>• Pot Life: 20 - 30 minutes             <ul style="list-style-type: none"> <li>○ Note that this standard kit (20 kg mix) is proportioned for manual applications e.g. roller. When applying mechanically (texture sprayer) use approx. 10% less Liquid for best results. This information is to be understood as a guideline and depends on the ambient conditions. Test first on same desired surface before final application.</li> </ul> </li> </ul>
<b>Application:</b>	<ul style="list-style-type: none"> <li>• Can be applied mechanically or manually.             <ul style="list-style-type: none"> <li>○ Mechanical application with an appropriate texture sprayer such as a Wagner Pro 1030.</li> <li>○ Manually with a e.g. roller, brush, broom.</li> </ul> </li> <li>• For optimum performance, <b>SURFACE-S/SE</b> should be applied between 3mm and 5mm.</li> <li>• This product should be applied between 5° C and 30° C. <b>DO NOT APPLY IN RAINY CONDITIONS.</b></li> <li>• Once dry, the product can be sealed with (colored/clear) cement protective sealer, if needed or painted with <b>HYDRO™TDC</b> coatings.</li> </ul>

## SURFACE™ Coating Solutions - Technical Data Table

Technical Data	Test Standards	Specs @ 23°C (73°F) and 50% relative humidity
Physical state per kit		Powder bag
Powder bag	Add mix to the water	20.kg
H <sub>2</sub> O	Depending on application and usage	4-5 ltr
Color (powder)	Can change due to the nature of cement	GREY
Shelf Life	do not allow to freeze	12 months, store in dry conditions,



# Technical Data Sheet - **Surface™P5**

ADDITIONAL INFORMATION IS LISTED IN THE SAFETY DATA SHEET

## **SURFACE™ – mixed state**

Max aggregate size with two coats		Approx. 3-4 mm
Density		1.4-1.6 kg/m <sup>2</sup>
PH		10-11
Application temperature range		Between 5° C to 30° C
Thickness per lift		Approx. 1-1.5mm
Working time		20 – 30 min
Curing		24-72 hrs depending on conditions
Approximate coverage per Kit (surface dependent (rough or smooth))		Up to 8-12 m <sup>2</sup> ; depending on surface conditions and intended use (1 coat)

## **SURFACE™ Test results**

	AS/NZS 1530.3	INDEX VALUES
not ignited in accordance		
Testing hardened concrete: Depth of water penetration under pressure test at 5mm thickness.	EN 12390-8	No water observed in the concrete
Adhesion to concrete after 28 days curing	AS/NZS 1580.408.5:1994	up to 5 MPa,
Adhesion to metal (cold rolled steel) after 28 days curing	AS/NZS 1580.408.5:1994	up to 5 MPa
Adhesion to wood after 14 days curing Australian Standards on Hardwood	AS/NZS 1580.408.5:1994	Up to 1 MPa BEFORE STD WOOD breaks Does not bond to rubber.

1MPa = 1N/m

[mailbox@fluxdesignaustralia.com](mailto:mailbox@fluxdesignaustralia.com) or refer to Surface™P5 /SDS.





## Technical Data Sheet - **Surface™P5**

### LEGAL DISCLAIMER:

We guarantee that our product has no defective materials and is manufactured and sold subject to its standard conditions for the supply of goods and services. A twelve-month warranty is given on the product's shelf life. The use of our products is beyond our control. Flux Design Australia Pty Ltd cannot accept and is not responsible for any loss or damage arising directly or indirectly from the use of its products, whether or not following any advice, specification, recommendation or information given by it or any application with in-water usage/application. The information contained herein is, to the best of our knowledge, true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application.

### Notice to the reader:

While the Information provided in this TDS is believed to provide a useful summary of the hazards of this product as it is commonly used, the safety data sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with this product to produce cementitious products or similar. Users should review other relevant material safety data sheets before working with this product or its mixed state.

Seller makes no warranty, expressed or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by Flux Design Australia Pty Ltd. upon request (also see [www.fluxdesignaustralia.com](http://www.fluxdesignaustralia.com)), except that the product shall conform to contracted specifications and its legal outlines.

The information provided herein was believed by Flux Design Australia Pty Ltd to be accurate at the time of preparation or prepared by the manufacturer and believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of the product, and whether based on contract, breach of warranty, negligence: or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise. For further information, SURFACE™, TDC™ and WetEX™ are trademarks of Flux Design Australia Pty Ltd. Please contact us via [mailbox@fluxdesignaustralia.com](mailto:mailbox@fluxdesignaustralia.com) -625