Technical Data Sheet (TDS)

Surface™AD is a one-component cementitious polymer surface render/membrane. Once mixed with water, it provides a high-performance, flexible, hydrophobic render and key coat bonding bridge for application to POROUS and NON-POROUS substrates.

Uses:

To provide a cementitious key coat bonding bridge or render on Permanent Formwork as in PVC type walls; REDIWALL™, DINCEL™, etc., as well as any non-porous surface such as metal ColorBond. An excellent base for application of render, paints, tiles and stonework or as a cost-effective way to protect your surfaces for years to come

Advantages:

- Provides a base coating suitable for substrates subject to Thermal Movements.
- High adhesion on PVC applications and non-porous surfaces.
- 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. Has Hydrophobic properties.
- Economical anti-slip (P5), reflects heat, wind and hail proof, UV resistant

Surface™AD products are also produced with "Green Binder", 85% reduced CO2 (compared to equivalent cement types)

Application Instructions:

Surface preparation: The surface to be coated must be sound, clean and free from all traces of paint, dust, grease, oils, efflorescence, loose particles, gypsum, plaster and mould-release compounds. Holes, voids, etc., should be filled and prepared for over-coating prior to the application (HYDRO™ – RCN repair grout).
Apply **Surface™AD** by Texture or Foam, or 10 NAP roller, or brush spreading a homogeneous and continuous coating of around 1-2 mm per uptake. For large areas, **Surface™AD** can also be sprayed. A Wagner Pro1030 or similar for best results is recommended. On fissures, concrete joints, corners and cracks, once repaired, apply a first coat of **Surface™AD** @ 1.2-1.6 kg/m2 and while the product is still fresh, place a mesh 50-200mm if needed. The drying time between two **Surface™AD** 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. For optimum performance, **Surface™AD** should be applied between 3mm and 5mm. This product should be applied between 5 °C and 30 °C. Only use acrylic sealers that are specified to be used for cement products. DO NOT APPLY IN RAINY CONDITIONS.
Once dry, the product can be sealed with (coloured/clear) cement protective sealer, if needed or painted with **TDC™** coatings or similar.

Mixing:

A 20kg bag of **Surface™AD** requires from 4.5-5.5 litres of water, depending on application temperature and substrate conditions. Pour the required amount of water into a clean container, and slowly add **Surface™AD,** mixing by slow-speed electric drill (400-600 rpm) for about 3-5 minutes until achieving a lump-free and homogeneous mix. Allow to rest 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.

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/m2. 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™AD** 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 get in touch with the **Surface™** technical service at Flux Design Australia.

Safety and Health:

Surface™AD is an abrasive cementitious compound. Protective rubber gloves and goggles must be worn during application. In case of eye contact, rinse thoroughly with clean water, but do not rub. If skin contact occurs, wash the affected areas with soap and water. If irritation persists, seek medical attention. Please adhere to the standards for handling cement products as per Australian work-safe regulations. Handling and processing of this material may generate dust that can cause mechanical irritation to the eyes, skin, nose, or throat. Avoid exposure and obtain special instructions prior to use. Do not inhale dust. Prevent contact with eyes, skin, or clothing. Ensure adequate ventilation. Keep the container tightly closed and sealed when not in use. Wash thoroughly after handling. Corrosive; alkaline mixture when combined with water-based liquids. The product behaves similarly to cement. May cause skin irritation; may cause an allergic skin reaction; may cause serious eye damage; may cause respiratory irritation (single exposure). Wear appropriate personal protective equipment as per Australian standards. Keep bulk and bagged cement dry until used. Stack securely bagged material to prevent falling. Bagged cement is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures. Observe good hygiene and manners and refrain from eating, drinking and smoking in areas where the product is in use.

SURFACE – mixed state
Max aggregate size with two coats approx. 4-6 mm;
Density 1.4-1.6 kg/m2
pH 10-11
Application temperature range: Between 10º C to and 30ºC

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Thickness per lift approx.1.5-2.5mm
Crack bridging >1.0mm
Working time: 20 – 30 min
Curing: 12-24 hrs, depending on conditions
Approximate coverage per Kit (surface dependent) up to 8-12 m^2; depending on surface conditions and intended use (1 coat)

SURFACE Test results
AS/NZS 1530.3
INDEX VALUES
Testing hardened concrete: Depth of water penetration under pressure
EN 12390-8
No water was observed in the concrete, pass 3 bar/5mm
AS/NZS 1580.408.5:1994
Adhesion to concrete after 28 days of curing up to 3 MPa,
Adhesion to metal (cold rolled steel) after 28 days of curing up to 3 MPa
up to 1.5 MPa BEFORE WOOD breaks
up to 1.6 MPa, depending on the type of PVC
Available in 20kg pails.

For further information, please contact us through www.fluxdesignaustralia.com

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, please contact us via info@greentechcement.com
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