Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

Technical Data Sheet

CROSflow® 815
Trade Leveller

CROSflow 815 Trade Leveller is a cementitious self-levelling underlayment with exceptional flow and adhesion properties. CROSflow® 815 Trade Leveller is suitable for internal applications where a thickness between 1mm and 30mm is required. Use CROSflow® 815 Trade Leveller over new or old concrete floors prior to the application of floor coverings. Will accept carpet and tiles after 24 hours, all other flooring coverings after 72 hours.

Recommended Uses:

- Suitable only for indoor applications.
- Residential and commercial applications.
- New construction.
- Refurbishment of old floors.
- Underlayment for carpet, carpet tiles and ceramic tiles after 24 hours cure – refer to Temperature Considerations.
- Underlayment for vinyl and timber after 72 hours cure – refer to Temperature Considerations.

Advantages:

- CROSflow 815 Trade Leveller is classified as Non-Hazardous with respect to Respirable Crystalline Silica (RCS) as it contains less than 0.1% RCS.
- May be applied to a thickness of up to 30mm in one application.
- Wide temperature tolerance during application.
- Tear and rain resistant PE bags which are recyclable and reduce product loss from damaged packaging.
- Excellent adhesion.
- Exceptional flow and workability.
- Trafficable at 8 hours.
- Accepting of some floor coverings within 24 hours – refer to Temperature Considerations.

Surface Preparation:

Concrete floors must be structurally sound, clean, and dry. Surface must be free from dust, dirt, wax, grease, asphalt, latex and gypsum compounds, adhesives, paint, curing and sealing compounds and other contaminants which may act as a bond breaker. Concrete must be free from laitance, efflorescence and not be subject to hydrostatic pressure. Mechanically prepare the floor using recommended preparation methods such as shot blasting, scarifying, diamond grinding, or other suitable methods to provide a roughened, clean, sound, solid and open porous surface. Acid etching is not a suitable method of preparing the subfloor. Remove all dust and debris from the floor by vacuuming the surface with a suitable H Class industrial cleaner – must be equipped with a Hepa filter.
All concrete sub floors must be fully cured and dry in accordance with AS 1884 (Less than 75% relative humidity when measured in accordance with ASTM F2170). Ambient temperature, surfaces and materials should be maintained at temperatures higher than 10°C and below 35°C. For floors with a high humidity content apply CROSflow® Moisture Vapour Barrier. Refer to the CROSflow® Moisture Vapour Barrier TDS for details.
Refer to Crosbe Technical Bulletin on Concrete Subfloor Preparation for detailed information on preparation of the subfloor.

Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

Priming:

Using a soft brush or broom, prime the prepared concrete area with CROSflow® Primer and allow primer to dry. A second coat of primer may be necessary on areas with very porous surfaces where the initial coat has been completely absorbed. Allow the primer to fully dry to a clean, thin film (approx. 1- 2 hours depending on ambient conditions) before applying CROSflow® 815. Low temperature can delay the drying time of primer. Do not apply levelling until the primer has dried thoroughly.

Mixing:

Place the recommended 4.5 – 5.0 litres of potable water into a clean mixing vessel and whilst mixing, slowly add the entire 20kg contents of CROSflow® 815. Mixing should take place using a forced action high shear mixing paddle, with a mixer capable of stirring at 600rpm. Mix for approximately 2 – 3 minutes to a lump free consistency.
Use mix within 30 minutes after mixing, be sure to only mix a quantity that can be use within this time.

- Do NOT overwater the CROSflow® 815, use only the recommended mix water volume.
- Do NOT use a concrete or masonry mixer to mix CROSflow® 815.
- Do NOT mix by hand.
- Do NOT attempt to retemper mixed product once the working time of 30 minutes has been exceeded.

Application:

Pour the mixed CROSflow® 815 onto the prepared substrate and spread into place using a long handled gauged spreader. CROSflow® 815 seeks its own level during the first 10 - 15 minutes after pouring. Subsequent applications of leveller should be made whilst the material on the floor is still fluid and has a wet edge, to allow for easy blending. The CROSflow® 815 can be applied up to 30mm thick in one application. Thicker applications can be achieved in multiple pours and may require a longer cure.
It is recommended that spiked boots be worn, to minimise any indentations in the product whilst still fluid.

Set Time:

Allow a cure time of 8 hours at 23°C for foot traffic. Allow the CROSflow® 815 to cure 24 hours at 23°C before applying carpet, carpet tile of ceramic tile floor coverings. Allow the CROSflow® 815 to cure 72 hours at 23°C before applying impervious floor coverings, such as timber or vinyl. These times can be impacted by air temperature, substrate temperature and relative humidity. Thicker layers will extend drying times.

Coverage:

20kg bag of CROSflow® 815 will cover approximately 2.4m2 at 5mm thickness, 4.0m2 at 3mm thickness.

Clean Up:

Wash all tools in water immediately after use.

Temperature Consideration:

The mechanism of interaction between cement and water is temperature sensitive. The set time is delayed at low temperatures and is accelerated at high temperatures. To avoid significant change in setting times, the recommended water temperature, ambient and substrate temperature ranges are:
Water Temperature Range: 15 – 25˚C. Working with temperatures outside of this range will also impact the fluidity of the product.
Ambient Temperatures: Do not apply at a temperature less than 10˚C. Above 30˚C, consider using cooled water for mixing the product. Do not apply in temperatures above 35˚C.
Substrate Temperature: Do not apply onto a surface which has a temperature less than 10˚C or above 35˚C.

Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

CROSflow 815 Trade Leveller - Product Data:

Property	Test Result
Working Time at 23°C	30 minutes
Fresh Mix Density (kg/m3)	2050
Yield (L/20Kg bag)	11.9 @ 4.5L water addition
	12.2L @ 5.0L water addition
20 Kg Bags per cubic metre	84 @ 4.5L water addition
	82 @ 5.0L water addition
Foot Traffic at 23°C	Approx. 8 hours
Floor Coverings at 23°C	Carpet & Ceramic Tiles: 24 hours
	Timber & Vinyl: 72 hours
Setting Times at 23°C	Initial: 2.5 – 3 hours
	Final: 3 – 4 hours
Compressive Strength	1 Day: > 15 MPa
	7 Day: > 22 MPa
	28 Days: > 30 MPa
Application Thickness	Minimum: 1mm
	Maximum: 30mm

Testing Parameters: 23% of water. Laboratory at: 23±2˚C > 50% RH. The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

Precautions:

This product is designed as an underlayment and must not be used as a trafficable wearing surface.
Do not use externally or in areas where the underlayment or subfloor is likely to be exposed to submersion, wetting or high levels of humidity.

Crosbe
P: 1300 797 560
E: info@crosbe.com
W: crosbe.com
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills

Packaging:

20kg Polyethylene (PE) bags.

Shelf Life & Storage:

Shelf Life:
The shelf life of the product is 18 months from the date of manufacture, if stored indoors in accordance with recommended storage conditions.
Storage:
Store in dry conditions, in unopened and undamaged PE bags and in temperatures below 30C. If stored in excessive temperature conditions, externally exposed to the elements or in high humidity conditions, the shelf life may be reduced.

Safety Data:

This product may cause irritation and an allergic reaction to the skin. It may cause serious eye injury and irritation to the respiratory system. In case of contact with the eyes rinse with running water (15 mins) including removal of contaminated clothing. Wear protective gloves, clothing, eye and face protection. Avoid inhaling dust/fume/gas/mist/vapours/spray. Ensure adequate ventilation during mixing and application. A class P2 dust mask is recommended for use when handling powdered material, and whilst grinding or scabbling floors. For detailed information, refer to the SDS for **CROSflow® 850**, available at www.crosbe.com.

Contact Crosbe:

Sydney – Head Office
ABN: 58 617 674 085
3 Viewbrook Close, Seven Hills NSW 2147 Australia
Ph. 1300 797 560 – Fax. 1300 797 580
info@crosbe.com
crosbe.com

Important Notice:

A Safety Data Sheet (SDS) is available from the Crosbe website (crosbe.com). Please read the SDS carefully prior to using this product. In an emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia).

Product disclaimer:

Recommendations and advice regarding the use of this product are to be taken as a guide only. The manufacturer of this product and any of its affiliate companies cannot be held responsible for any loss or damage arising from the incorrect usage of this product. The use of this product is beyond the manufacturers control, and liability is restricted to the replacement of material should the product be proven faulty. The information contained herein is to the best of our knowledge, true and accurate. We reserve the right to update information without prior notice. No warranty is implied or given to its completeness or accuracy in describing the performance or suitability of the product for a particular application.