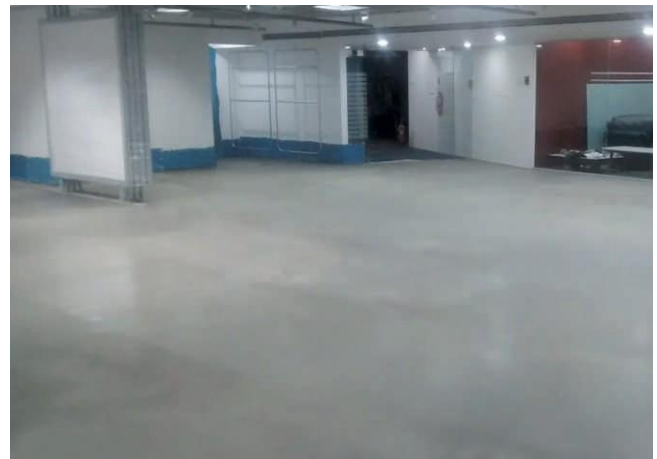




Ultralevel SL

SELF LEVELLING CEMENTITIOUS UNDERLAY



DESCRIPTION

Ultralevel SL is a rapid hardening self-levelling, single component cementitious underlay, formulated to achieve a smooth flat surface with ease of application and maximum flow without any shrinkage or cracking.

RECOMMENDED USES

Underlayment for floor coverings such as carpet, ceramic tiles, vinyl, parquet etc. Fast repairs of uneven concrete floors. residential, commercial & medium industrial application, from 2 mm to 120 mm in a single application. New construction & refurbishment projects, flat smooth surfaces over existing concrete slabs. Levelling existing uneven concrete floors.

FEATURES & BENEFITS

Accepts foot traffic in 2 hrs. Reinstating large areas in short time periods. Fast application. Dimensionally stable. Single component product, just add water. Installation can be carried out in a single application. Rapid curing. Can be applied directly onto prepared concrete surfaces. Eliminates need for sand & cement screeds. Floor covering may be applied next day.

APPLICATION PROCEDURE

Ensure the concrete substrate is clean & free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or other foreign matter. Excess bitumen, adhesive or laitance should be removed by light scabbling or mechanical captive shot blasting or

grinding, followed by vacuuming to remove debris & dust. Large cracks or holes may be filled using Ultra Rapidset in accordance with Technical Data Sheet. Prior to carrying out application, the substrate must be primed - Porous Substrate must be primed with Ultralevel Primer, Non Porous must be primed with Ultra NP primer. New concrete floors must be at least 14 days old prior to application of Ultralevel SL.

MIXING

Ultralevel SL requires 4.3 litres of water per 20 kg bag & is mixed with a forced action, high shear stirrer, powered by a heavy duty electric mixing drill @ approx. 600 r.p.m. Gradually add Ultralevel SL to pre measured water in a clean mixing bucket, continuously mixing the contents. When the entire contents have been added, mix for a further two minutes to produce a smooth homogenous consistency. Do not mix by hand. Do not add excess water. Discard any Ultralevel SL that has hardened or stiffened in the mixing bucket. Further addition of water will not reconstitute a useable mixture.

PLACING

Pour the mixed material on the primed substrate & allow material to seek its own level. Spread Ultralevel SL with a steel trowel, spreader or squeegee. Keep the trowel slightly inclined to obtain desired thickness. To ensure uniform consistency & application, keep subsequent mixes ready to enable continuous pouring

until the area to be levelled is complete. Protect the finished areas from damage until Ultralevel SL has dried.

CURING

No special curing is required. The addition of water, after it has started to stiffen is not recommended.

PRECAUTIONS

Ultralevel SL must not be used in areas subject to occasional or permanent wetting or where back water pressure is likely. Do not permit it to come into contact with water at any stage during use. Do not apply it as a scratchcoat. It is not designed as a wearing coarse or as a water proofing agent & should only be used as an underlayment. To avoid rapid drying, protect from direct sunlight or drying winds during actual application & while curing for up to 12 hours. If substrate on to which it is applied moves or cracks, reflective cracking will occur depending on thickness & ambient temperatures. It can be covered with flooring materials in 24 hours. For large & thick sections it is advised to check the moisture content prior to application of floor coverings. New concrete surfaces must be at least 21 days old prior to application.

CLEAN-UP

Ultralevel SL should be removed from tools and equipment with clean water immediately after use.

COVERAGE : 20kg bag of Ultralevel SL mixed with 4.3 liters of clean water will yield approximately 13 liters. This quantity will cover approx 1.3 m² @ 10 mm thickness.

Thickness	Area m ² per 20 kg bag
2 mm	6.5
4 mm	3.3
5 mm	2.6
6 mm	2.2
8 mm	1.6
10 mm	1.3
13 mm	1.0
Yield : 80 bags per cubic metre.	

PACKAGING

Ultralevel SL is supplied in a 20 kg polylined bag.

HEALTH & SAFETY

Hazardous & Harmful. Avoid contact with skin and eyes. Wear overalls, safety shoes, gloves & chemical goggles

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PERFORMANCE PROPERTIES

Appearance / Colour Primer	Powder / Grey Ultralevel Primer Concentrate
Compressive Strength – AS 10129.9, AS 2073 @ 20°C	
1 day	15 Mpa
3 days	22Mpa
7 days	25Mpa
28 days	35Mpa
Flexural Strength – ASTM C 348–86 @ 20°C	
1 day	3.5 Mpa
3 days	4.5Mpa
7 days	7.8Mpa
28 days	11.0 Mpa
Flowability – BS 890 flow cone @ 20°C	
Initial Flow	280 - 300 mm
After 10 minutes	270 - 290 mm
Bond Strength - ASTM C 882 - 1987 Slant/ Shear method	
7 days	> 3 Mpa
28 days	> 5 Mpa
Setting Time - Vicat setting time	
Initial set 20°C	- 40 - 50 minutes
30°C	- 30 - 40 minutes
Final Set 20°C	- 50 - 60 minutes
30°C	- 40 - 50 minutes
Working Time	
10° C	50 - 60 minutes
20°C	40 - 50 minutes
30°C	30 - 40 minutes
Application Thickness	
Minimum	2 mm
Maximum	120 mm
Coefficient of Thermal Expansion	
10 - 12 x 10 ⁻⁶ mm / °C	
Fresh Wet Density	
AS1012.5	1860 kg/m ³ approx.
Traffic Time @ 20° C	
Foot Traffic	2 hours
Vehicle Traffic	12 hours
Time to cover with < 10 mm floor covering (overlay) > 10 mm	12 -18 hours 24 hours
Application Temperature	
Minimum	5° C
Maximum	30° C
7 days	< 150 Microstrain
28 days	< 400 Microstrain
56 days	< 600 Microstrain

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this product shall be on terms & conditions set forth on Bostik's order acknowledgement.