



# Ultralevel HD

SELF LEVELLING CEMENTITIOUS HEAVY DUTY FLOOR OVERLAY



## DESCRIPTION

Ultralevel HD is a rapid hardening self levelling, polymer modified cementitious overlay. It has been formulated for maximum flow & easy application to achieve a smooth, flat surface without shrinkage or cracking.

## RECOMMENDED USES

Reinstatement of new or existing concrete floors subject to foot traffic, industrial equipment, fork lift traffic or trolleys. Use as final wearing coarse overlay. Hard wearing, long lasting durable overlay. Fast application, rapid cure minimises factory down time. Residential, commercial & light to medium industrial applications. Use as stand alone system. Application thickness from 6 mm - 20 mm in a single application.

## FEATURES & BENEFITS

Accepts foot traffic in 2 hours, Very 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. Floor coating can be applied 3 hrs after application.

## APPLICATION PROCEDURE

Ensure substrate is clean, dry and free from oil, grease, sealers, curing compounds, paints, polymer coatings, dust or any other contaminant or coating that may affect the bonding of Bostik Ultralevel HD onto the

substrate. All foreign material, e.g. bitumen, adhesive or laitance must be removed by mechanical means such as scabbling, capture shot blasting or grinding. The substrate must be primed prior to the application of Bostik Ultralevel HD.

## MIXING

Bostik Ultralevel HD requires 4.3 litres of clean water per 20 kg bag & is best mixed with a forced action, high shear stirrer, powered by a heavy duty electric mixing drill at approx. 600 r.p.m. Add Bostik Ultralevel HD to pre-measured water in a clean mixing bucket, whilst continuously mixing the contents. When the entire contents of the bag have been added to the water, mix for a further 2 minutes to produce a smooth homogenous consistency. **DO NOT MIX BY HAND. DO NOT ADD EXCESS WATER.** Discard any Bostik Ultralevel HD that has hardened or stiffened in the mixing bucket.

## APPLICATION

Pour the fully mixed Bostik Ultralevel HD onto the primed substrate and allow material to seek its own level. It may be spread with a steel trowel, spreader or squeegee. Keep the trowel slightly inclined to obtain desired thickness of cover. To ensure uniform consistency & continuous flow, it is advised that subsequent mixes are ready to enable continuous pouring until the entire area to be levelled is complete. Minimum thickness 6 mm. Protect the finished areas from damage until Bostik Ultralevel HD has dried.

PERFORMANCE PROPERTIES		
Appearance / Colour Primer	Powder / Grey Ultralevel Primer Concentrate	
Compressive Strength - AS 10129.9, AS 2073 @ 20°C		
1 day	20 Mpa	
3 days	28 Mpa	
7 days	32 Mpa	
28 days	40 Mpa	
Flexural Strength - ASTM C 348-86 @ 20°C		
1 day	3 . 8 Mpa	
3 days	7 . 6 Mpa	
7 days	8 . 2 Mpa	
28 days	11 . 5 Mpa	
Flowability - BS 890 flow cone @ 20°C		
Initial Flow	280 - 300mm	
After 10 minutes	270 - 290mm	
Bond Strength - ASTM C 882 - 1987 Slant/ Shear method		
7 days	> 5 Mpa	
28 days	> 10 Mpa	
Setting Time - Vicat setting time @ 20°C		
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	6 mm	
Maximum	20 mm	
Coefficient of Thermal Expansion		
	7 - 11 x 10 <sup>-6</sup> mm / °C	
Fresh Wet Density AS 1012.5		
	1850 kg/m <sup>3</sup> approx.	
Traffic Time @ 20° C		
Foot Traffic	2 hours	
Vehicle Traffic	12 hours	
Time to cover with < 10 mm floor covering (overlay) @25° C > 10 mm	3 hours 24 hours	
Drying / Shrinkage - AS 1012 . 13		
Drying Time	Shrinkage (Microstrain)	
7 days	< 150 Microstrain	
28 days	< 400 Microstrain	
56 days	< 600 Microstrain	
Abrasion Resistance - ASTM C 501 -1984 (Taber Abrasion)		
Age	Wear Index	
7 days	244	
28 days	355	
Comparison Chart		
Surface	Wear Index	Classification (resistance to wear)
Ceramic Tile	142	very high
(Bassalt) Blue Stone	39	poor
Concrete 30 Mpa	36	poor
Concrete 70Mpa	71	poor
Cast Iron < 0Mpa	99	low high
Water Required/20 kg - 4.3 litres		

## CURING

No special curing is required. The addition of water to Bostik Ultralevel HD after it has started to stiffen is not recommended. Any Bostik Ultralevel HD that has not been placed whilst still fully fluid should be discarded.

## Important Notes

Concrete substrates must be at least 21 days old. Do not overwater. Do not hand mix. Can be walked on after 2-4 hrs. Most floor coverings can be laid after 24 hrs. Check moisture content in large/thick applications prior to laying floor coverings. Protect from direct sunlight or drying winds during cure. Do not use in areas subject to a hydrostatic head of pressure. Do not use in areas subject to constant contact with moisture.

## CLEAN-UP

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

## PACKAGING

Ultralevel HD is supplied in a 20 kg polylined bag.

## HEALTH & SAFETY

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

## STORAGE & SHELF LIFE

Ultralevel HD has a shelf life of approximately 12 months if kept in a dry environment completely away from moisture.

## COVERAGE

A 20 Kg bag of Bostik Ultralevel HD mixed with 4.3 litres of clean water will yield approximately 13 litres. This quantity will cover approx. 2.2m<sup>2</sup> @ 6mm thickness.

Thickness	Area m <sup>2</sup> per 20 kg bag
6 mm	2 . 2
8 mm	1 . 6
10 mm	1 . 30
13 mm	1 . 0
20 mm	0 . 65

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