

Solvent Free, Self-Leveling Polyurethane Resin Floor Coating, For Smoothing Heavy Duty Flooring with High Performance, Chemical Resistance & Protection against Corrosion**Thickness Applied:** From 2.50mm up to 10.00mm thick**Product Application:** **Build Bond SL** is high-viscosity solvent free modified polyurethane resin contains. Offers self-leveling smoothing, high hardness, chemical resistant and protection against corrosion. The coating has applied on floor system for warehouses, car park decks, garages, shopping centers, precision industrials, hospitals, pharmaceutical processing, food processing, electronic industrials, kitchen area and chemical plants other etc.**Advantage & Properties:** The specific advantage offered by solvent free coating. Very good adhesion, the system recommended for concrete can also be applied on other concrete floors, mineral substrates, as stones, bricks, fibre-glass, plaster, metal surface or even tiles and glass.**Ultraviolet Resistance:** **Not reflection to eye and no yellowing after 100 hours.**

- Adhesion is always good on mineral substrates surfacing.
- Very good flow mechanical properties following optimal cure.
- Good in no dust from substrate coatings easy to clean, improved visibility.
- Excellent of chemical resistance, good on hygienic floor.
- Adhesion promoting primers between old with new concrete.
- Non-toxic, the coating has been cured applied on health floor.

Mechanical Performance of Properties

			Build Bond SL 2	Build Bond SL 5
Compressive Strength	25°C	[N/mm ²]	> 60 (± 3)	> 70 (± 3)
Tensile Strength	25°C	[N/mm ²]	> 12 (± 0.2)	> 12 (± 3)
Elongation at Break	25°C	[%]	05	05
Tear Strength	25°C	[N/mm ²]	> 16 (± 3)	> 17 (± 3)
Flexural Strength	25°C	[N/mm ²]	> 18 (± 0.2)	> 19 (± 0.2)
Traffic Cured	25°C	[hour]	> 24	> 24
Hardness Shore D			75	80
Viscosity	25°C	[mPas]	23000 (± 2500)	30000 (± 2500)
Taber Abrasion Resistance		[mg]	31	31
Modulus of Elasticity		[N/mm ²]	13500	13500
Service Temperature		[°C]	15°C - 40°C	15°C - 40°C
Application Temperature		[°C]	Min.10°C - 38°C	Min.10°C - 38°C
Density		[g/cm ³]	1.88-2.00	2.10-2.25
Surface Resisitivity		[ΩOhm]	3 x 10	3 x 10
Coefficient to Thermal Expansion			1.5 x 10⁻ /°C	1.5 x 10⁻ /°C

Grade/Type of System **Build Bond SL 2 Medium Duty Floor**
thickness require from min 2.00-3.50mm

Build Bond SL 5 Heavy Duty Floor
thickness require from min 4.50-6.50mm

Coverage: 0.25-0.50 kg/m² for first coats for **Build Bond Primer**
4.75 kg/2.50mm thick/m² for **Build Bond SL 2**
11.00 kg/5.00mm thick/m² for **Build Bond SL 5**

Surface Preparation Surface to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitance, sealers, grease and other bond inhibiting contaminants.

Steel surface shall be sand-blasted to SS 2 Standard and de-rust to ST 2 Standard 50mm rich primer is recommended for priming.

Concrete Floor Slab must cured at least 28 days and have with minimum Compressive Strength of 5,000 psi. Those cement slurry, plaster droppings, etc. must be remove, the surface of concrete free of oil, grease, and other loose particles and contaminations.

Build Bond Primer, it's easy to applied, there for using brush on R.C. Surfacing. Application must be made in single layer coat with, coverage from 0.25 – 0.5 kg/m².

Build Bond SL, it's easy to applied, there for using steel trowel on R.C. Surfacing. Application must be made in single layer coat with, coverage from 1.88-2.25 kg/1.00 mm thick/m². (**Refer to Application**)

Packing & Size: Part: A kg per pack
Part: B kg per pack
Part: C kg per pack
Part: D kg per pack

Mixing Temperature: Supplied as four-component system. Mix materials with low speed drill and paddle for approximately four minutes. Insure a thorough mix. Never mix more material than can be used in (18) minutes. Do not apply **Build Bond SL** when ambient or surface temperatures are below 05 °C.

Mixing Method System Use **Part A** to re-disperse any settlement. Transfer to a mixing container and add **Part D** (power pigment) gradually, whilst thoroughly mixing for 1 – 2 minutes, ensuring the pigment is fully dispersed. Add **Part B** to the mixture and mix for 1 minute. Mix in the in **Part C** gradually and continue mixing for 1-3 minutes until homogeneous.

Application Immediately after mixing, within 1 – 2 minutes of mixing spread the topping onto the primed floor to the required thickness using a steel bladed trowel, or pin rake set to the correct depth.

Within 2 minutes of application, roll with a spiked roller (for release the air bubble). Lay abutting mixes within 4 minutes of application of previous mix. Maximum bay width not exceeding 6.00 meter.

Available of Color Grey, Beige, Green, Blue, Cotta Red & Yellow

Storage 12 months from date of manufacture in original sealed container stored undercover 25 °C, at ambient temperature away from heat, and dry conditions. For clearing equipment, use special solvent liquid.



Pharmaceutical Processing Floor



Food Processing Floor



Sport Floor



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