BEST CONSTRUCTION
CHEMICALS
Stick with Best

BESTCOAT SL-40

Solvent Free High Build Self-Level Epoxy Floor System

Description:

•Bestcoat SL-40 is a solvent-free, filled and pigmented epoxy resin-based dual component reaction plastic.
•Resistant to long term exposure to high temperatures and changes in temperatures of up to +50°C
•Perfect Shore-hardness, ensuring excellent surface hardness
•Highly impermeable to chlorides excellent flow properties Weatherproof, abrasion-proof, seals hydrophilic
•The binding agent might cause colours to slightly change following prolonged UV exposure
•High abrasion resistance and toughness High mechanical strength
•The cured material produces a dense, colourful, glossy surface.
•Application possibilities on glazed and terrazzo tiles, steel and timber.
•Easily applied
•Smooth high gloss finish for hygienic applications easily cleaned
•Good general chemical resistance
•Colourful - improves the working environment

Technical Data

Type	BESTCOAT SL-40
Colour	RAL
Density (23OC/50% rel. Humidity)	Kg/Ltr 1.7
Viscosity 10c	mpas 4500-5500
Viscosity 20c	mpas 2000-2500
Preparation time 10c	Min 45-50
Preparation time 20c	Min 35-40
Preparation time 30c	Min 25-30
Recoat Time 10c	Hours 15-30
Recoat Time 20c	Hours 10-20
Curing time Accessible 20c	Hours 8-12
Curing time Partial loadable 20c	Day 01
Curing time Full loadable 20c	Day 07
Minimum subsurface temperature on the subsurface	10+ C
Solid state	100%
Coating Thickness	1-4 mm
Adhesive tensile strength	Concrete failure
Compressive Strength	~8122 psi
SHORE A/SHORE D	D 80-82

Recommended Uses:

Bestcoat SL-40 is used as a self-levelling coating material for cement-bound substrates such as concrete or cement screeds for internal and external applications.

- Storage halls
- Production and repair premises
- Workshops, dairies, abattoirs, laboratories, exhibition halls, power stations, chemical plants, multi-story car-parks.
- Beverage production - including soft drink manufacturing.
- Pharmaceutical, Hospitals areas
- Showrooms, demonstration areas.
- Industrial and commercial cold kitchens

Important Information:

Supplied in:	20 kg, others on request.
Colour Shade:	RAL Colour on request
Shelf Life:	12 months after production
Storage Conditions:	In Original sealed units. Dry Cool and free of frost

CE-label:

DIN EN 13 813 „Screed material and floor screeds screed materials properties and requirements"(Jan.2003) sets the rules for screed materials used for floor construction indoors. Coatings and Sealers are included in this regulation as well. Products that are conforming to regulation mentioned above can be labelled with a CE-label.

- Last two digits of the year when CE-label has been attached
- NPD= No performance determined
- Not broadcast with sand

HYGIENE:

Taint tests carried out on Bestcoat SL-40 at the Leather head Food Research Association under artificially severe conditions showed that the risks of tainting foodstuffs are minimal during and after complete cure

GISCODE: RE 1:

For safe handling of epoxy resins and their curing agents we do recommend attention to the following leaflets as a matter of principle: Leaflet BG-Regel BGR 227, Handling of Epoxy resins.
Furthermore, the relevant physical, safety-related,toxicological and ecological data have to be taken from the specific material safety data sheets.

Application Guidelines:

Surface preparation:

The preferred method for surface preparation of concrete is captive blasting, which gives a well prepared laitance free, vacuum cleaned surface. Prior to application Bestcoat SL-40 should be stored under cover in an air conditioned environment and protected from extremes of temperature which may cause inconsistent workability, finish and cure times for the mixed material.

Using a slow speed drill and paddle, mix the components for a minimum of 1 minute, or until all striations have disappeared. Apply the mixed sealer to the prepared dust free surface with a medium pile roller, at the rate of 6- 8m² per litter depending on the surface profile of the concrete. If the concrete is very absorbent, a single application may not be sufficient and a second coat may be required to ensure the surface is completely sealed. Allow the sealer to become tack free before applying the Bestcoat SL-40.

Mixing:

Pour the reactor into the base and, using a suitable drill and paddle, mix the components together until a uniform color is achieved. Mixing should be for a minimum of one minute. Pour the mixed components into a suitable mixing vessel of 30 litter capacity. With the mixer still running, slowly add the aggregate and mix for 2 minutes or until the mixture is smooth and free of lumps. Always keep the mixing time the same for all batches, to ensure a uniform colour when the product is applied.

Laying:

Pour the mixed material onto the primed and sealed surface, and spread to the required thickness using a pin screed, notched trowel or steel float. As soon as the material has been spread to the required level, the applied material should be rolled with a spiked roller to release entrapped air and remove trowel marks. Rolling should be continued until all air is released and a uniform colour is obtained. The operator should always wear spiked shoes when using the spiked roller so that he can walk in the wet material. Rolling should cease before the Bestcoat SL-40 begins to gel.

Equipment

Vacuum recovery shot blasting, machine, Scarified, (Errut / Von Arx), Masking tape / polythene sheets Grinder, Heaters for cold weather work Overalls, Trowels Lighting, Slow speed drill with suitable, paddle, Spiked roller, Brushes or short nap hair rollers Spiked shoes, Industrial vacuum Pin screed.

Equipment care

Remove Bestcoat SL-40 from tools, and equipment whilst still wet using SOLVENT, No.2. Cured resin will require mechanical removal.

Curing:

The curing of reactive polymers is affected in particular by the ambient and sub surface's temperature. Low temperatures slow the polymer's chemical reactions and thus prolong the time required for application, until the surface is ready for the second coat, until being able to walk on, and the floor's total curing time; as well as increasing the amount of material required due to the higher viscosity. High temperatures accelerate the chemical reactions, thus correspondingly diminishing the above times. In order for the reactive polymer to fully cure, the mean temperature of the subsurface must always be higher than the minimum temperature.

Disclaimer:

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

CE	
EN 13813 SR-AR1-B1,5-IR4	
Synthetic resin screed/ coating for indoor use (construction according technical data sheet):	
Behavior in case of fire:	Efl
Release of corrosive substances	(Synthetic Resin Screed) SR
Water permeability:	NPD 2)
Abrasion Resistance:	AR 1 3)
Adhesive strength:	B 1,5
Impact Resistance:	IR 4
Subsonic noise reduction:	NPD
Acoustical absorption:	NPD
Heat insulation:	NPD
Chemical Resistance:	NPD