

Floorchem BC

3-component, high-build, solvent-free PU-based body coat/
scratch coat on primed concrete.

Product Description

Floorchem BC is a 3-component, high-performance PU-based floor coating system formulated as a base coat for the Antiskid system. It offers excellent flexibility and vibration resistance, especially required in multi-level car parks.

Uses

- Specially recommended as a base coat or binding agent for antiskid systems built by silica sand broadcasting.
- Can also be used as a screed on concrete/bitumen

Salient features

- Good mechanical and chemical resistance
- Easy application, durable
- Excellent adhesion to substrate
- Good flow
- Long Pot Life
- Excellent flexibility and vibration tolerance

Product Data

Appearance / colour:	Floorchem BC[R] Resin: Floorchem BC[H] Hardener: Floorchem BC Aggregates:	pale yellow liquid Brown liquid White powder
Storage conditions /shelf life	12 months from date of mfg. If stored properly in undamaged seal packaging, at a temperature between 50 °C- 300 °C, it should be kept in a cool, well-ventilated area, away from heat, direct sunlight, sparks, and children.	

Mechanical /Physical properties

Property	Test Method	Value and Unit
Mixing Ratio	NA	Pre weighed kit
Solid content	CPI* 1001	approx 100%
Pot Life @ 30 °C	CPI 1002	20 minutes
Surface Dry	CPI 1002	3 hours
Hard Dry [Open for foot traffic]	CPI 1002	24 Hours
Full Cure [Vehicular Movement]	CPI 1002	72 Hours

Mechanical properties

Elongation at break	ASTM D 638	>50%
Pull off Adhesion test	ASTM D 4541	Concrete Failure @ 18 Kg/cm ²
Tensile strength	ASTM D 638	>160 kg/cm ²
Abrasion Resistance[Taber]	ADTM D 4060	45mg loss/1000 cycles
Crack bridging ability	ASTM C 836: 1995	>0.5mm
Shore Hardness	ASTM D 2240	ASTM D 2240
Compressive strength	ASTM D 695	>550 Kg/cm ²
Shelf Life	-	12 months in original unopened Container when stored between 5- 40 C

Method of Application

All Chemsol Products are recommended to be applied only by Approved Applicators and should be used after using proper PPE's like Gloves, mask, goggles etc.

Substrate Quality

The CDS (clean, dry, sound) test must be conducted before application of primer to the concrete substrate. The substrate must be free of all contaminants such as dirt, oil, grease, coatings, and surface treatments, etc. If in doubt, apply a test area first.

Application Conditions:



Substrate temperature: 10-40 °C



Substrate moisture content: - <5%



Relative humidity: 80%max

*Note: The substrate temperature must be at least 30C above the prevalent dew point temperature to reduce chances of condensation on the floor.

Application of floorchem BC

*Ensure that the underlying coat is thoroughly cured and is dust-free. Stir the resin part mechanically for 1 minute, then add the hardener and continue stirring for a further 1 minutes. Now add the aggregates and continue stirring for 2 minutes with a motorised helical paint stirrer until a uniform mix has been obtained. Pour the material on the floor and spread it with a notch trowel to obtain the desired thickness. Now broadcast the sand to excess on it till the material is still tacky.

Curing Schedule

Refer the following table to know how quickly the floor can be brought to service

Temp.(deg C)	Foot traffic	Full cure
10°C	48 hours	120 hours
20°C	36 hours	72 hours
30°C	24 hours	72 hours

Cleaning of Tools

Clean all tools and application equipment with thinner PT 36 immediately after use. Hardened and/or cured material can only be removed mechanically.

Packing

Floorchem BC is available in pre weighed kit of 30 kg.

Handling & Safety

Keep the containers tightly sealed when not in use. Avoid skin contact and inhalation of fumes (if any). While spraying it is advised to wear a mask. If it comes in contact with the body, wash affected parts with plenty of soap and water. In case of persistent irritation, contact a physician.

Disclaimer: The Information provided is based on our experience, thorough investigations & sophisticated testing methods, but due to the vast number of applications and usage methods, Chemsol Polymer Industries cannot accept responsibility of any kind for any particular result. It is the responsibility of the user to verify the suitability of the product for their end use and in accordance with the rules and regulations of that country /territory. All information provided pertaining to our products should be treated only as a guidance tool without any guarantee or warranty of any sort.

* All CPI test methods are our scientifically designed internal test methods which can be shared upon request.

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