BG Coatings **Datasheet**

DIAMOND HARD – WATER BASED CONCRETE SEALER

PRODUCT CODE: WBS – SERIES

TECHNICAL DATA SHEET N0: WBS-1
DATE: OCTOBER 2026
THIS SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION	A surface hardener, dust proofer and densifier for concrete.	
INTENDED USES	A surface treatment used for horizontal old and new concrete surfaces. Typical applications are for warehouses, industrial plants, parking structures, shopping malls, service stations, etc.	
FEATURES & BENEFITS	• Suitable for interior or exterior applications. • Single component RFU. • Non-yellowing. • Improved abrasion resistance compared to untreated concrete. • Improved impact properties. • Reduced dusting and improved cleanability of concrete floors. • Environmentally friendly.	
PRODUCT INFORMATION	Colour	Clear natural look. Gloss: Low.
	Generic type	Sodium Silicate based.
	Solid content	~24%
	SG	~ 1.200 Kg/l
	VOC Content	0 grams per litre.
	- Classification	APAS AP-D181 and Green Building Council of Australia Green Star limits: Very Low (<5 g/L) VOC.

APPLICATION DETAIL

As a curing agent for fresh concrete

Allow to cure for a period ≥ 7 days.

Apply an even film with high volume low pressure spray with sufficient material to keep the surface damp for at least 30 minutes.

After approximately 30 to 35 minutes, the material will start to gel and become slippery.

Wet the material slightly with water spray to reduce slipperiness and rework into the surface for 10 to 20 minutes with a soft bristle broom of floor-scrubbing machine.

After approximately 20 minutes, the material will re-develop a gel. Rinse the floor and remove excess material with a squeegee, wet vacuum or mop.

Hardened / old concrete

Surfaces must be sound, open textured, clean, free from laitance, surface water, oils, grease, coatings, loosely adhering particles and other surface contaminants.

The substrate must be prepared by high pressure water cleaning or by ride-on cleaning machines. Allow to dry prior to application.

All dust, dirt, loose and friable material must be completely removed from all surfaces by brush and / or vacuum before application of the product.

Apply an even film with high volume low pressure spray.

To ensure maximum penetration, scrub material into the surface with a soft bristle broom or floor-scrubbing machine (min. 30 minutes), until the material begins to gel



	and becomes slippery. Wet the material slightly with a water spray and rework it into the surface for another 10 to 20 minutes. After this process, rinse the floor and remove any excess material using a squeegee, wet vacuum or mop. On porous, rough-textured or broom-finished surfaces, a second coat may be required
APPLICATION ENVIRONMENT	
Substrate temperature	+5 °C min. / +35 °C max.
Ambient temperature	+5 °C min. / +35 °C max.
Relative humidity	100 % max.
DRYING TIME	
Touch Dry	2 hours at +20 °C.
Maximum sealing and hardening	~7 days at +20 °C.
OVERCOATING	Where 2 coats are required, to ensure maximum densification, the second coat can be applied 2–4 hours following the first. Allow previous coats to become tack free before applying additional coats.

Temperature	**Time**
+5 °C	~3.5 hours
+10 °C	~3 hours
+20 °C	~2 hours
+25 °C	~1.5 hours

Times are approximate and will be affected by fluctuating ambient conditions ~ temperature and relative humidity.

APPLIED PRODUCT RFU

Substrate temperature	**Fully serviceable**
+10 °C	~6 hours
+20 °C	~5 hours
+30 °C	~4 hours

Note: treated concrete surface must not be wetted for the first 3 days at least. This could lead to efflorescence.
Times are approximate and will be affected by changing ambient and substrate conditions.

SPREADING RATE (THEORETICAL)	4 – 7 m^2/l per coat. - Relative to surface porosity and surface profile.
CLEAN UP	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.
SAFETY	Provide adequate ventilation and wear protective clothing. Consult the Safety Data Sheet.
STORAGE AND PACKING	Shelf Life: 12 months at 25°C - from date of manufacture. Subject to inspection thereafter. Store in dry conditions out of direct sunlight away from source of heat or ignition. Store at temperature between 5 and 35°C
PACK SIZE	Single pack: Available in 10 lt. and 20 lt. packs.

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DISCLAIMER:
The recommendations contained herein are given in all good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.
N.B. Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

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