



WB2K®

Two component waterborne epoxy primer, sealer & waterproofing membrane

Description

WB2K® is a two component epoxy sealer that combines the excellent adhesion and toughness of epoxy resins with the advantages of a water based formula.

WB2K® is formulated for use as both a positive and negative side waterproofing membrane, an abrasion resistant floor sealer and as a surface primer for other Crommelin waterproofing membranes.

Advantages

WB2K® delivers the following advantages:

- Tough impervious coating
- Highly waterproof – for both positive and negative side waterproofing
- Controls rising damp prior to the application of waterproofing membranes, floor finishes and other coatings
- Low sheen /semi gloss finish
- Excellent adhesion to damp (no standing water) and dry surfaces
- High chemical, oil, fat, and solvent resistance
- Simple to use 1:1 mixing ratio
- Non-toxic, non-flammable and easy clean up
- Easy to apply by brush, roller or spray

Areas of Use

WB2K® is suitable for use in the following areas:

- Basements & tunnels
- Foundations
- Concrete floors
- Workshops
- Food processing areas
- Moisture vapour barrier for under timber floors
- Retaining walls & planter boxes
- Water retaining structures
- Balconies and podium decks
- General concrete protection
- Hospitals and laboratories

Substrates

- Concrete
- Brick & Block Work
- Metal
- Plaster
- Wet Area Gyproc
- Cement Render
- Stone
- Timber & Timber Panel
- Other Coatings
- Wet Area Particle Board
- Wet Area Fibre Cement

Testing Approvals and Standards

WB2K® is compliant with the following standards:

- Green Star Office V2 / V3 and Green Star Interiors
- APAS 181 – V.O.C limits

Technical Data (@ 25°C)

Number of Coats:	2
Mix Ratio:	1 : 1 by volume
Coverage:	5-7/ m ² per litre per coat
Wet Film Per Coat:	150-200 Microns
Recoat:	4-6 Hours (or when trafficable)
Pot Life:	45 Minutes
Thinner:	Water (Maximum 5% if required – added to the mixed product)
Full Cure:	2-3 Days
Colour:	Light Grey
Clean Up:	Crommelin HD Cleaner
Shelf Life:	9 Months

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Ancillary Products

Contractor Applicator Brush – 100mm, 75mm	Contractor Roller Cover – 230mm
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Test Data

Properties	Measurement / Standard	Test Results
Salt Resistance	In accordance with ASTM D543	Excellent
Hot Water Resistance	In accordance with ASTM D543	Excellent
Abrasion Resistance	In accordance with ASTM D543	Excellent
Solvent Resistance	In accordance with ASTM D543	Fair
SKYDROL Resistance	In accordance with ASTM D543	Good
Acid Resistance	In accordance with ASTM D543	Good (low concentrates)
Alkali Resistance	In accordance with ASTM D543	Good
VOC Content	APAS D181	48g/L
Volume Solids Content	Calculated	56.3% V/V
Hydrostatic Pressure Resistance	ASTM D7088	210kPa for up to 36 hours (20.7m head of pressure)

Substrate Preparation

- Surfaces must be clean and free from oil, grease, dust, loose material, laitance, curing compounds, form release agents and all other surface contaminants.

Substrate Preparation (continued)

- Surfaces may be dry or damp (not saturated with standing water)
- Note: Do not apply to substrates with a moisture content higher than 30%**
- Masonry should be flush pointed
 - All high points and protrusions should be removed and surface defects should be brought back to an even profile using a suitable repair mortar
 - Voids may be filled using a mix of 1 part WB2K to 4 parts clean fine sand

Note: Due to the wide variety of substrates available, adhesion testing is recommended in a trial area before full application

Application Conditions

- Pot life between 25 – 45 minutes, dependent upon temperature and humidity
- Application temperature between 10°C - 25°C
- Do not apply below 10°C surface temperature, or when relative humidity is above 85%

Mixing

- WB2K® is supplied in 2 pre-measured components
- It is always recommended to mix full kits
- If part kits are mixed, ensure that components are accurately measured to maintain a 1 : 1 mix ratio
- Always mix WB2K® in a clean container, large enough to accommodate the full kit
- Only mix enough material that can be placed within pot life relevant to conditions
- Mixing should be done with a mixing drill and mixing blade
- Mix part 1 and part 2 separately for 1 minute
- Add equal parts by volume of part 1 and part 2 to mixing vessel and mix for at least 3 – 4 minutes until a homogenous light grey liquid is achieved

Note: Poor mixing or inaccurate mixing ratios will result in variable cure, less than optimum hardness and reduced over all performance



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Application

- Apply by brush, roller or airless spray
- Apply coat 1, ensuring application rate is as per recommended coverage rates and a consistent coating is achieved
- Allow coat 1 to cure for at least 4 – 6 hours, or until trafficable
- Apply coat 2, as per recommended coverage rates
- Allow to achieve full cure before exposure to moisture or traffic
- Allow to cure for 24 hours before over coating with waterproofing membranes or other compatible coatings
- Ensure good airflow during application and cure – circulating air fans are recommended

Note: If multiple kits are to be applied, ensure each new kit is prepared in a clean mixing vessel. If not, old mixed material from previous batch may contaminate the new batch and effect performance characteristics

Note: If multiple kits are to be applied, roller covers must be cleaned or replaced with every new batch of WB2K®. It is important that old mixed material does not contaminate any new batches

- If a light profile slip resistant finish is required, add **Crommelin® Silica 300** to mixed WB2K® at a rate to achieve desired finish
- If a higher profile slip resistant finish is required, broadcast the appropriate graded aggregate into the wet 1st coat and allow to dry. Remove excess aggregate and over coat with coat 2

Note: Do not apply solvent based adhesives or sealants until WB2K® has reached full cure

Clean Up

- Uncured material may be removed with warm water and detergent
- Cured material may only be removed mechanically
- Cured material may be softened by soaking in Crommelin® HD Cleaner before attempting removal

Maintenance Schedule & Repair

- WB2K® must be protected from damage by after trades and inspected prior to the application of any over coat

Precautions

- Always ensure that substrate moisture content is within acceptable parameters
- Do not apply during periods of extreme weather conditions
- Mixing ratios must be accurate at a rate of 1 :1
- Mix as per instructions to achieve an homogenous material
- Ensure adequate air flow to optimise membrane curing
- Wear gloves and eye protection during mixing and application

Warrantees

WB2K system warrantees are available for the following time periods:

10 Years	✓	15 Years	✓	20 Years	
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Please contact your Crommelin® representative, or the Crommelin® technical support team for detailed specifications applicable to your project

Transport & Storage

- Size: 8L Kit, 20L Kit
- Weight: 10kg, 25kg
- DG Class: N/A
- Flash Point: N/A
- UN Number: N/A
- Cool and dry storage

Safety & First Aid

WB2K® material safety data sheet available from Crommelin® upon request

Safety

- Ensure good ventilation and avoid breathing vapours
- Avoid skin and eye contact. Wear gloves and eye protection. Remove splashes on skin immediately and remove contaminated clothing
- Keep out of reach of children
- Keep container sealed when not in use
- Do not swallow

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First Aid

- If poisoning occurs, contact a doctor or poisons information centre : Ph 13 11 26
- If swallowed, do not induce vomiting. Give a glass of water to drink
- If in eyes, hold eyes open and flood with water for at least 15 minutes
- If not breathing, apply artificial respiration

Any advice, recommendation, information, assistance or service provided by Crommelin® in relation to its products or their use is given in good faith, however is provided without responsibility or liability.

Customers need to undertake their own assessment to determine the suitability of a product for the particular use intended. As the performance of any product is subject to a wide variety of different surface types as well as environmental and surface-specific conditions, it is essential that a sample of the product be applied to the intended area of use to ensure it is acceptable in appearance and finish and that it performs as required on the specific surface.

Crommelin® also reserves the right to update information without prior notice, to reflect ongoing research and product development.

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