



# Protectakote WB

Protectakote WB (water-based) is a water-based anti-slip polyurethane coating. Its textured finish is ideal to create safe, anti-slip walkways, steps and ramps on light industrial and commercial floors, for both interior and exterior applications. This water-based solvent-free formulation is weather resistant, has a low odour, and is non-flammable. It's enhanced with polyurethane for ultimate toughness, with excellent resistance to abrasion, chemicals and solvents. The single pack is ready to use, easy to apply and fast drying. A non-textured smooth version is also available for use as a protective coating or as a touch-up coating which will not alter the texture of existing textured applications.

## PRODUCT USES

- Protectakote WB is suitable for interior and exterior use.
- Protectakote WB can be applied to metal, cement, wood, fibre-glass, PVC and previously painted surfaces.
- Protectakote WB's textured anti-slip finish can be used:
  - To create safe, anti-slip areas on light industrial and commercial floors
  - Ramps for wheelchair access.
  - Emergency exits and fire escapes.
  - Anti-slip areas around machinery.
  - Bridges, steps and walkways.
  - Boat decks and helicopter pads
  - Any other areas where an anti-slip coating is required.
  - An automotive coating to protect load beds, tail lifts, chassis and wheel-arches of 4x4's, trucks, pick-up trucks, trailers, floors and steps of transporters and busses, as well as any other commercial and specialized vehicles.
- Smooth finish is ideal as a protective coating and can also be used to refurbish textured areas without adding more profile.

## COVERAGE

- 4m<sup>2</sup> per litre per coat. Applied in a 2 coat application. Giving an overall coverage of 2m<sup>2</sup> per litre.
- Three coats are recommended for high wear areas.
- Coverage will vary depending on the porosity and profile of the surface.

## SURFACE PREPARATION

Substrates differ significantly, and so all new applications should be tested first.

Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as dirt, rust, salt, algae and grease. Protectakote WB exhibits good adhesion to most primers. All non-porous substrates with the exception of painted surfaces require a primer. Zest Polyurethanes supplies suitable primers for all substrates - consult us for our range of primers.

- **Steel:** Abrade surface lightly and remove any surface rust or mill scale by sanding, wire brushing, with a chipping hammer or sandblasting. All metals must be primed with Protectakote Universal Epoxy Primer within 30 minutes.
- **Galvanized Iron:** Clean away grease and dirt with a suitable galvanized iron cleaner until a water break-free surface is attained. Rinse well with water and allow to dry. Prime with a suitable etch or galvanized primer.
- **Aluminium:** Abrade to fresh metal, clean well using detergent. Prime with Protectakote 2K Metal Primer within 30 minutes.
- **Fibre-glass:** Lightly abrade and clean surface thoroughly with water. Allow to dry, then apply Protectakote WB direct.

## FINISH

- Available in a smooth finish or textured anti-slip finish

## COLOURS

- Beige, Black, Blue, Cream, Green, Grey, Orange, Red, White and Yellow

## ADVANTAGES

- Water-based - low odour, non-flammable and weather resistant.
- Easy to clean up – simply use water before it cures.
- Single component – ready to use direct from can.
- Easy to apply – no skilled labour required.
- Fast drying.
- Polyurethane performance – ultimate toughness.
- Rubber crumb texture.
- Flexible – won't chip, flake or peel.
- Excellent resistance to abrasion, chemicals and solvents.
- Prevents rust and corrosion.
- Excellent capacity to repel water.
- High adhesion to most surfaces including metal, cement, wood, fibre-glass and PVC.
- Can be overcoated.
- Repairable – bonds to itself.
- Will not taint water or food once cured.

- **Wood:** Abrade with a scouring pad or medium grit sandpaper and clean the surface. Wood must be dry or sealed before applying Protectakote WB directly.
- **Gloss Paints and Varnish:** Abrade with a scouring pad or medium grit sandpaper to remove all gloss. Clean away sanding dust and allow to dry thoroughly. Apply Protectakote WB directly.
- **Cement:** Allow new concrete at least 28 days to cure. Old and new cement or concrete surfaces must be acid-etched, rinsed well and dried. Prime with an epoxy primer as per instructions if damp or oil contaminated.
- **PVC:** Abrade and clean well with water. Allow to dry before applying Protectakote WB direct.
- **Motor Vehicles and Painted Metal:** Remove heavy dirt and rust. Previously painted surfaces need to be lightly abraded using a scouring pad or medium grit sandpaper to remove all gloss. Clean away sanding dust and allow to dry thoroughly. Apply Protectakote WB direct.

## APPLICATION

- Ensure substrates have been prepared.
- Ensure areas not to be coated have been masked off.
- Stir well before use using a flat paddle.
- Always apply a test patch of Protectakote WB to ensure the substrate has been properly prepared and primed. Check adhesion of the coating by cutting a small X in the coating using a utility knife. Firmly apply a piece of packaging tape over the centre of the X cut, then pull off with a fast snap. The adhesion is suitable if no significant coating is removed beyond the X cut. If the coating fails this test, then additional surface preparation is required – repeat the above steps.
- Protectakote WB should be applied in a number of thin coats. Although gas is not evolved during the curing process as with solvent-based Protectakote versions and pinholes will not occur, a number of thin coats will dry faster than a single thick coat.
- **Brush-on:** Protectakote WB should be “laid” onto the surface with a brush (do not brush backwards and forwards as with an enamel paint). Second or subsequent coats should be applied at right angles to the previous coat. Intercoat time is approximately 2 hours, when touch dry, depending on ambient conditions.
- **Roller:** If applied with a stipple roller, application is quicker and the final texture rougher with greater non-slip characteristics. Follow same instructions as per Brush-on. Intercoat time is approximately 2 hours, when touch dry, depending on ambient conditions.
- **Curing time:** Protectakote WB cures by evaporation. The coating will be touch dry in about 2 to 4 hours and allowing light traffic after 12 hours. Full strength and chemical resistance is achieved in 4 to 7 days, but normally the coating can be put to use after 24 hours.
- **Overcoating and repair:** Protectakote WB can easily be repaired or overcoated. The old surface should be well cleaned and then abraded by wire brush or sandpaper, and damaged surfaces must be cut out to provide an area without loose edges. Follow application instructions. If Protectakote WB is left for more than 24 hours after coating, it should be abraded before recoating to aid intercoat adhesion. If correctly done, Protectakote WB provides a seamless repair.
- **Cork Floors**
  - Presealed: directly apply a single coat of Protectakote WB in a cross-hatch method, taking care to not miss any areas. Inspect while wet to ensure that all areas have been coated.
  - Unsealed: directly apply two coats of Protectakote WB at right angles to one another. The second coat may be applied after 2-3 hours or as soon as touch-dry, but within 24 hours

## CLEANING

- Uncured Protectakote WB: Can be cleaned in its uncured state using water.
- Cured Protectakote WB: Can be removed with MEK (Methyl Ethyl Ketone) or by mechanical means.
- Remove any spills immediately as Protectakote WB is very difficult to remove once cured.
- Use hot soapy water to clean the coating.

## IMPORTANT

- Please read all instructions carefully before starting the project.
- Proper surface preparation is critical for successful application of Protectakote WB.
- Do not thin with any solvent. Water is recommended as an appropriate thinning agent.
- Do not apply to bare metal without an appropriate primer.

## SAFETY PRECAUTIONS

- **Safety goggles and protective gloves are recommended.**
- **Skin contact: Wash thoroughly with soap and water.**
- **Eye contact: Flush immediately with water for 10 – 15 minutes and contact a physician.**
- **Respiratory problems: Remove affected person to fresh air immediately and contact a physician.**

- **Not for internal consumption. Should Protectakote WB be swallowed seek medical advice.**
- **Keep out of reach of children.**

## TECHNICAL DATA

Pack size	1 litre, 4 litre
Finish	Textured Gloss
Colour	Black, Grey, Red, Yellow, Beige, Cream, Orange, White, Blue and Green
No of components	Single pack
Touch drying time	2 hours at 25°C, 70% relative humidity
Light foot traffic	12 hours
Full traffic	24 hours
Full cure	4-7 days
Overcoating time	Ideal: 2 hrs at 25°C and 70% relative humidity Max: 24 hrs at 25°C and 70% relative humidity
Volume solids of Clear Smooth Version:	35%
Volume solids of Tinted Versions:	50% (textured), 43-48% (smooth)
Dry film thickness (DFT):	125 microns per coat applied at 4m <sup>2</sup> per litre (textured version) 115 microns per coat applied at 4 m <sup>2</sup> per litre (smooth version) 90 microns per coat applied at 4 m <sup>2</sup> per litre (clear smooth version)
VOC content	4.4% by mass
Film tensile strength at break	35MPa (ASTM D638)
Film elongation at break	270% (ASTM D638)
Service temperature	-30°C to 85°C
Application temperature	0°C to 30°C
Flexibility	Excellent
Weathering	Excellent weather resistance, colour fast
Density	1,01g/cm <sup>3</sup> (brush version)
Viscosity	78 to 82ku
Soluble in	Water
Flash point	N/A
Explosive limits	N/A
Thermal decomposition	>2200C
Hazardous reactions	none
Toxicity	non toxic
Thinning/ Clean up	Uncured: Water Cured: MEK
Shelf life	18 months
Storage conditions	Cool dry place below 25°C

*Technical details above are provided in good faith. We are an ISO 9001: 2008 registered company and our products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of our products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst we are confident in guaranteeing the quality of our products, we cannot however accept any liability for performance failure due to the incorrect application of our products. Correct application is critical to the successful performance of our products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase.*

*Updated: November 2015 (this supercedes all previous publications)*