

### DESCRIPTION

**Protectakote UVR** is a single component aliphatic polyurethane coating, which forms a colour-fast, abrasion and weather resistant film with either a textured anti-slip or smooth finish\*. Protectakote UVR is available in a large variety of standard colours. \* *limited range of colours available*

#### **Versions:**

- Brush/Roller, for application by paint brush or 'stipple' roller, as used for stipple paints.
- Spray for Special order only ( 6-8 week delay)

**Colours:** Black (RAL 9005), Mid-Grey (RAL 7046), Light Grey (RAL 7047) Red (RAL 3020), Sand, Tan, Dark Blue (RAL 5010), Mid Blue, Transparent, Cream, Safety Yellow (RAL1023), White (RAL 9016), Dark Green (RAL 6005), Olive Green (RAL 6013) and Brown (RAL 8011)

### PRODUCT USES

Just some of the various areas where Protectakote UVR may be applied are:

- Load areas of pick-up trucks for protection and non-slip properties
- All indoor and outdoor flooring applications
- Floors and steps of transporters and buses
- Ramps for wheelchair access
- Emergency exits and fire escapes
- Non-slip areas around machinery
- Bridges, steps, walkways, decks and helicopter pads on ships
- Non-slip surfaces in showers, change rooms and ablution blocks

### ADVANTAGES

- Tough and weather resistant
- Colour-fast
- Easy to apply, no skilled labour required
- Will not taint water or food once cured
- Bonds to most surfaces
- Non-slip or smooth textures
- Can be overcoated or repaired
- Resists many solvents, good chemical resistance to organic and inorganic acids
- Abrasion resistant
- Drying time can be accelerated if necessary (low temperatures or time constraints)
- Compared to standard Protectakote the UVR version offers a greater tensile strength, significantly greater resistance to UV light and a 50% shorter drying time.

### COVERAGE

Total coverage: About 1.25 - 1.5m<sup>2</sup> / litre applied in two coats i.e. 2.5 - 3m<sup>2</sup> / litre per coat.

### SURFACE PREPARATION AND PRIMING

Substrates differ significantly, and so all new applications should be tested first. All surfaces must be sound, dry and free of oils or greases. If in doubt or when applying to areas greater than 15m<sup>2</sup> we recommend that a test area is done first.

- **Cement:** Old and new cement or concrete surfaces must be acid-etched, rinsed well, dried and primed with Duraprime water-based epoxy primer. Good quality concrete, not subject to any rising damp can be applied without a primer and the first coat diluted 10% with Xylene.
- **Steel:** To be free of millscale, rust, grease and well abraded. Prime with suitable acid etch or corrosion inhibiting primer. Can be applied directly to well abraded and cleaned mild steel.
- **Galvanized steel:** Scour with alkaline detergent or galvanized pre-cleaner to a water break free surface. Prime with a suitable etch primer or Protectakote clear primer treatment.

- **Aluminium:** Abrade to fresh metal and prime with Protectakote clear primer treatment, Protectakote 2K, Metcote or an aluminium etch primer within 30 minutes. For applications where pooling of water is expected do not use Metcote.
- **Fibreglass:** Abrade well and solvent wipe with Xylene.
- **Timber:** Abrade, solvent wipe with Xylene before applying Protectakote UVR. With hardened or treated timber the first coat should be diluted by 10% with Xylene. Damp timber requires a moisture barrier such as Duraprime.
- **Gloss Paints and Varnish:** Abrade to remove all gloss, solvent wipe with Xylene
- **Rubber (nitrile or chloropene):** Clean well using detergent or cleaning solvent. Allow to dry. Test adhesion first.

**Protectakote UVR** exhibits good adhesion to acrylic, epoxy and polyurethane primers. Nb: acrylic primers are not recommended for use with **Protectakote** due to their low film strength and lack of water resistance.

### APPLICATION INSTRUCTIONS

Ensure substrates have been prepared, tests for adhesion completed and areas not to be coated have been masked off. Stir well before use.

**Spray:** Dilute with 10% Xylene. Use a minimum pressure of 5 bar. Protectakote UVR should be applied in thin coats to prevent "mud cracking" during drying. Depending on the application, two or more coats can be applied, allowing time for all solvent to evaporate between coats. Intercoat time approximately 60 – 90 minutes (when touch dry) depending on ambient conditions.

**Brush/Roller:** Protectakote UVR should be "laid" onto the surface with a brush (do not brush backwards and forwards as with an enamel paint). Two coats will result in a final dry film thickness of 0.6mm to 0.8mm. Second or subsequent coats should be applied at right angles to the previous coat if possible. Do not apply too thickly, particular care should be taken with the transparent version.

For larger areas its best applied with a stipple roller, application is quicker and the final texture is more consistent with greater anti-slip characteristics. Not recommended for smooth version.

- **Curing time:** Protectakote UVR cures with atmospheric moisture. Without accelerator the coating will be touch dry in about 60 – 90 minutes, allowing light traffic after 6 hrs, and achieves full strength and chemical resistance in 4 to 7 days, but normally coating can be put to use after 24 hours.
- **Accelerated cure:** In areas of low atmospheric moisture or when shorter curing times are required, an accelerator can be added prior to use. The data sheet for 'D-18 Accelerator' lists drying times for the un-accelerated product under various conditions of temperature and humidity. This will help users determine when accelerator will be required.
- **Overcoating and repair:** Protectakote UVR can easily be repaired or overcoated. The old surface should be well cleaned, then abraded by wire brush or sandpaper and solvent wiped with Xylene. Damaged surfaces must be cut out to provide an area without loose edges. Follow application instructions. If Protectakote UVR is left for more than 24 hrs after coating, it should be abraded before recoating to aid intercoat adhesion.

### SOLVENT/CLEANING

If thinning is necessary, use up to 10% of Xylene. Do not use any solvent containing water or alcohols. Spills and brushes can be easily cleaned with Xylene after the drying time but before final cure.

### PRECAUTIONS

- Do not clean surfaces with Lacquer thinners.
- Do not apply to bare metal without an appropriate primer.
- Protectakote UVR is highly flammable in its wet state due to its solvent content, observe all fire precautions.
- Remove any overspray immediately; Protectakote UVR is very difficult to remove once cured.
- Once opened use Protectakote UVR within 2 hours or 1 hour if accelerator is used.
- Ensure good ventilation to prevent build up of flammable solvents.



# Product Information

## Protectakote UVR

- Protect from moisture and do not expose unopened cans to temperatures above 50°C.
- Wear goggles and rubber gloves. If allowed to dry Protectakote UVR bonds to the skin, soak in soapy water for 10-15 minutes gently scrubbing affected area, liberally apply moisturising lotion.

### ACCIDENT MEASURES

- Spillage/leakage: Do not empty into drains; keep away from sources of ignition. Ensure ventilation in working area. Take up with absorbent material. Fill into sealable containers.
- Extinguishing media: extinguishing powder, CO<sub>2</sub> or halogens.
- Eye contact: rinse with water.
- Skin contact: wash with soap and water.
- Should Protectakote UVR be swallowed seek medical advice.

### TECHNICAL DATA

Pack size:	1l, 4l & Bedliner Kit
No of components	Single pack
Touch drying time	<90 minutes at 25°C and 50% relative humidity
Light foot traffic	6 - 8 hours
Serviceable after	24 hours
Full cure	4-7 days to reach final strength
Overcoating time	Ideal: 60 – 90 minutes at 25°C at 50% relative humidity
Percentage solids	70% by mass
Percentage VOC	<296g/l
Tensile strength at break	26MPa (ASTM D638)
Elongation at break	600% (ASTM D638)
Service temperature	-30°C to 115°C
Application temperature	5°C to 35°C
Hardness	85 Shore A
Weathering	no change after 1000 hours QUV
Specific Gravity	1.03g/cm <sup>3</sup> (rubberised version) 1.07g/cm <sup>3</sup> (smooth version)
Viscosity	80 to 110ku
Flash point	27°C
Explosive limits	lower: 2, 1% by vol. upper: 11, 5% by vol.
Hazardous reactions	Exothermic reaction with amines, alcohols, acids and alkalis in uncured state. Reacts with water forming CO <sub>2</sub> gas. Closed containers may rupture owing to increase of pressure. Open pressurized containers carefully, to release pressure.
Toxicity	Toxic in uncured state
Thinning	Xylene
Cleaning the coating	Hot soapy water
Shelf life	24 months
Storage conditions	Cool dry place below 25°C

*Technical details above are provided in good faith. We are an ISO 9001 2000 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 users conduct their own suitability tests before use.*

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