

CRESPROTECT UVR is a solvent based, two-component, polyurethane coating designed for the protection of masonry against abrasion, chemicals and aggressive environments. **CRESPROTECT UVR** provides excellent resistance to UV light, is colour stable, non-yellowing & will not chalk. It is available in clear or a range of colours, with gloss or matt finishes, that provides good aesthetics with an easy clean, non dusting surface.

USES

CRESPROTECT UVR provides a seamless chemical and abrasion resistant coating to cured epoxy systems, metal and concrete surfaces both internal and external area.

- Protective coating for roof
- Factory and Warehouses
- Car parking
- Concrete floors
- Plant & production areas
- Mechanical rooms and work shops
- Swimming pool decks
- Loading bays

SURFACE PREPARATION

Preparation

Substrate

Good surface preparation will give a strong adhesive & mechanical bond to the substrate.

New substrate should be fully cured with a maximum residual relative humidity (RH) of 75%. Prepare concrete surfaces preferably by mechanical methods such as angle grinding to remove laitance, curing compounds and other loose materials to provide a mechanical key for CRESPROTECT UVR.

After preparation, fill all blow holes and surface imperfections using **CRESPOXY** (see separate data sheet) to provide a smooth even surface prior to over coating. Allow 24 hours to cure and lightly abrade before over coating.

Existing joint sealants unless well bonded, should be raked out and the joint faces mechanically prepared to remove existing primers and sealant residues.

Clean joints thoroughly after preparation and apply masking tape either side of the joint to protect surfaces from primers & excess material.



TECHNICAL PROPERTIES

Description	Standard	Value
Volume solids, %	-	52 ± 2
Density, g/cc	ASTM D1475	1.3 (±0.05)
Recommended thickness per coat		
Wet film, microns	ASTM	96
Dry film, microns	D 2697	50
Pot life @25°C, mins	-	>60
Touch dry @25°C, mins	-	90
Tack free @25°C, hrs		3-4
Full cure @25°C, days	-	7
Finish	-	Glossy and Matt
Minimum application temperature	-	2°C, 95% max. relative humidity
Chemical Resistance	ASTM G 1308-20	No swelling, peeling, blistering, Color/gloss change, delamination observed
UV Resistance	ASTM G 154-16	No significant changes were observed after 1000 hrs of UV exposure

All values given are subject to 5-10% tolerance

Insert CRESROD (see separate data sheets) into the prepared joint to create a slot for the sealant, with a width to depth ratio of between 2:1 & 1:1 in accordance with good joint sealant design.

Mix & apply CRESSEAL Product (see separate data sheet) to the joint, allowing it to become tack free before taping over for protection using masking tape, then applying **CRESPROTECT UVR**. For joints subject to traffic, the minimum depth of sealant must be 20 mm. If a coating has already been applied as a base coat & is more than 4 days old, particularly if epoxy, it must be abraded with emery paper or grinders to provide a key, prior to the application of **CRESPROTECT UVR**.

Priming

Priming is not normally required however if the substrate is old or particularly porous, we recommend priming with **CRESFLOOR EP 100**. Thoroughly stir both parts of **CRESFLOOR EP 100** together in full for at least 2 – 3 minutes until a uniform colour & consistency is achieved. Apply **CRESFLOOR EP 100** using a brush or roller to the prepared concrete surface at a rate of 8 - 10 m² per litre per coat. Allow the primer to become tack free before applying **CRESPROTECT UVR**. A second priming coat may be required if the substrate is particularly porous.

Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product. Mechanically mix the entire contents of the resin components together for at least 1 – 2 minutes until a uniform colour & consistency is achieved. **DO NOT UNDER ANY CIRCUMSTANCES PART MIX MATERIALS.**

Application

We recommend checking the substrate before commencing coating works to ensure is at least 3°C above dew point. Apply the first coat of mixed **CRESPROTECT UVR** using brushes, rollers or airless spray equipment in a continuous uniform coating, to a theoretical coverage rate of 8 - 10 m² per litre, to give an approximate dry film thickness of 50 - 60 microns.

Allow the first coat to dry prior to applying the second coat. Apply the second coat of **CRESPROTECT UVR** in the same manner as the first, allowing at least 24 hours drying time between coats.

Please note the coverage rate will reduce if an anti slip profile has been used. It is recommended to do on site trials to assess the compatibility with any existing coatings & the actual coverage rates that can be achieved prior to commencement of the works. Expansion joints must be reflected through the **CRESPROTECT UVR** and preferably sealed with a sealant from the CRESSEAL range. Allow adequate ventilation for solvents and fumes to evaporate.

CURING

Allow **CRESPROTECT UVR** to cure fully for 4 - 7 days depending on local conditions, before exposing to full mechanical, chemical or environmental conditions.

HOT WEATHER CONDITIONS

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment. Avoid exposure of mixed & unmixed materials to direct sunlight.

Keep equipment that will be in contact with the product cool and away from direct sunlight. Avoid application during the hottest time of day.

CLEANING

Clean tools and equipment immediately after use with CRESCLEAN.

LIMITATIONS

Substrate temperatures should be above 5°C and rising. For application in temperatures above 40°C please refer to hot weather condition recommendations. Avoid application if the work area may be subject to the onset of rain or moving water. Do not part mix under any circumstances. Chemical spillages should be cleaned quickly in accordance with good house keeping to maximise the life of the product. All products should be used within the pot life. Materials not used within the specified time should be discarded. The product should not be thinned with any type of solvent under any circumstances. Any surface filling or repairs will be visible through **CRESPROTECT UVR** clear. If the above general application details do not meet with your requirements, please contact KANZ technical team for a project specific method statement.

PACKING

CRESPROTECT UVR is supplied in 18L kit. Coverage rate per coat approximately 8 - 10 m² per litre @ 50– 60 microns DFT. **CRESFLOOR EP 100** is supplied in 20L kit. Coverage rate approximately 8 - 10 m²/litre per coat.

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

HEALTH & SAFETY

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes. Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces. Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

STORAGE

CRESPROTECT UVR has a maximum shelf life of 12 months from the date of manufacture in their original, unopened packaging in a dry environment, away from direct sunlight. Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.

Product Disclaimer:

Kanz chemical Ind. LLC products are guaranteed against defective materials and are sold subject to standard terms and condition of sale, copies of which are available on request which are reasonable. All recommendations regarding the use of product are made without guarantee since the conditions of use are beyond the company's direct control. It is the customer's responsibility to ensure each product is fit for the purpose for which they intend to use it. Furthermore the specifications and description herein cannot be used to void a contract.

*Refer material safety data sheet (MSDS) for further information.