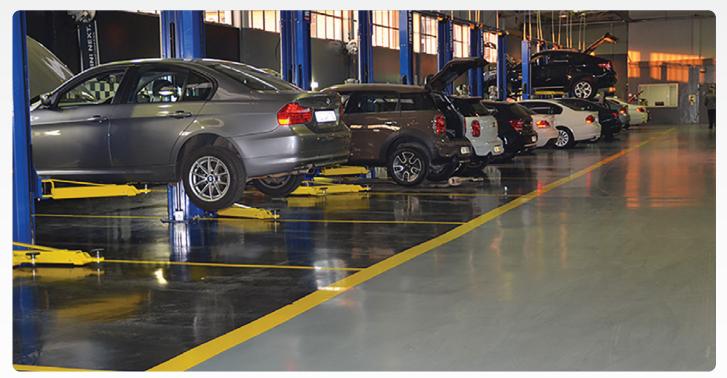


RX-TOUGHSEAL UVC

The easy to apply, UV protected industrial floor coating system.



www.robex.co.za







What is RX-Toughseal UVC

Concrete floors form the primary working surface in most industries and, as such, their durability is of vital importance. The very nature of concrete makes it porous, prone to dusting and chemical attack, unable to resists impact and abrasion from the multitude of operations carried out on its surface. The result is premature deterioration resulting in an unsightly and pitted floor harboring bacteria and other contaminates, making for an unsafe working surface. RX-Toughseal UVC twin pack polyurethane coatings have been designed to eliminate these defects in concrete floors and to provide a superior floor finish.

These polyurethane coatings penetrate the concrete to form a tough resilient material which reinforces the surface and binds the fragile matrix of the concrete together. In this way the concrete becomes capable of absorbing the flexural and impact loads characteristic of traffic on industrial floors. RX-Toughseal UVC wall also extend the service life of the concrete because of its resistance to attack by a wide range of aggressive contaminants.

A twin pack polyurethane designed to provide a coating with good wearing properties allied to flexibility, water resistance and resistance to most chemicals. RX-Toughseal UVC is versatile in that it functions as a protective coating for rigid concrete flooring and it protects and enhances the appearance of wooden flooring exhibiting excellent gloss and withstanding dimensional and flexural stresses. RX Toughseal UVC is based on partially polymerised resub which permits penetration and cures to fill micro cracks and crevices thereby reinforcing the surface and adding strength by binding matric together.

RX-Toughseal UVC also extends the service life of the surface because of its resistance to a wide range of contaminants. Cleaning of RX-Toughseal UVC surfaces is also made easier because of the smooth finish.

Application procedure of RX-Toughseal UVC to concrete floors:

- 1. Floor must be at least 28 days old before treatments. Make sure floor is free form dirt and loose particles.
- 2. Degrease with solvent base detergent and rinse with water. Repeat until all traces of grease are gone.
- 3. Acid etch with RX118. Use 1 part RX118 to 5 parts water. Pour onto floor with plastic watering can to form a continuous layer (approximate spreading rate is 1m²/liter of diluted solution) allow to react for ±5 minutes until bubbling stops. Scrub vigorously with hard brooms while RX118 is reacting. Do not allow RX118 to dry on the surface.

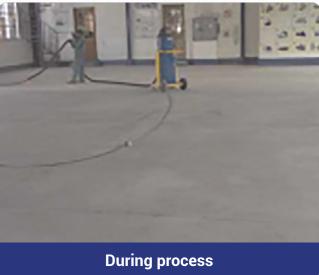
CAUTION: Wear protective clothing i.e. gum boots, rubber gloves and goggles.

- Rinse floor thoroughly with plenty of clean water and repeat rinsing operation until all RX118 is removed (see step 7)
- 5. If unable to rinse and remove water properly, use vacuum machine.
- If the glaze of the surface has not been removed, the etching operation must be repeated followed by the water rinse. The surface must be roughened equivalent to the surface of medium sandpaper. (80 grit)
- 7. Check pH must be neutral or slightly alkaline. (i.e. pH 7 or higher). To check pH, pour half a cup of water on to a few representative areas of the floor and allow to stand for 5 minutes / dip a piece of pH paper in the wettest area. If pH is lower than 7, repeat water rinse.)
- 8. Dry 24-28 hours before painting.

Painting

- Dilute first coat of RX-Toughseal UVC by 20-25% (by volume) with RX-Toughseal UVC thinners and apply with a roller or brush.
- Within 6 to 12 hours apply full coat of RX-Toughseal UVC undiluted by brush or roller. An additional undiluted coat may be applied within a further 6 to 12 hours if desired.







NOTE: If application by roller causes bubbling, "lay-off" with a brush.

CAUTION: As this product gets very hard, it does not get softened by the solvents in the subsequent coat which could cause delamination if longer intervals than 12 hours are allowed between coats. If longer intervals are unavoidable, an additional coat may be applied after thorough sanding with no. 100 sandpaper to de-gloss the existing coating.

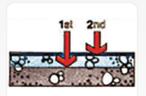
Industrial floor coatings

Untreated Problems Treated Solutions



Untreated surface

Plain concrete is not aesthetically pleasing or good working surface in many industrial environments where structural strength is required.



Treated surface

A simple 2 coat application can seal your floor and transform it into a pleasing surface whilst retaining the inherent structural strength.



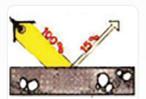
Unsuitable surface

Concrete is often inadequate as a material of construction for the many arduous duties required of it as a floor.



Technical design

Out technical department will recommend the best solution to your specific requirements based on our knowledge of the chemical resistance of a particular coating.



Poor light reflectance

Clean concrete will reflect 15% of incident light as best, and even less when dirty.



Good light reflectance

Once coated with RX-Toughseal UVC, the floor will produce up to 60% more light reflectance than an uncoated floor.



Unsightly staining

Plain concrete is porous, therefore allowing the penetration of many soils which are not only unsightly, but often unhygienic as well.



Impervious surface

Once coated with RX-Toughseal UVC the surface will be impervious to a wide range of contaminants resulting in an attractive and hygienic finish.



High maintenance cost

A deteriorating concrete floor gives rise to very expensive and usually temporary repairs often in an effort to maintain the production capability of the area.



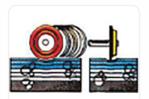
Ease of cleaning

A coated floor is very easy to clean and maintain in its original condition hereby cutting down high maintenance costs normally associated with concrete floors.



Surface deterioration

Although concrete is inherently very strong, repeated traffic over its surface can cause premature failure and dusting.



Rolling load assistance

Plain concrete is not aesthetically pleasing or good working surface in many industrial environments where structural strength is required.



Surface damage

Concrete is particularly sensitive to impact damage which causes micro-cracking at first and later total structural failure.



Impact resistance

A coated floor will be considerably more resistant to impact damage due to the flexibility imparted to the concrete by the RX-Toughseal UVC treatment.



Limited life

The additive effect of these potential problems can lead to a very short lifespan for an industrial concrete floor.



Durability

The life of a coated floor will be considerably extended due to its ability to withstand the aggressive conditions to which it is subjected during its normal lifespan.

Features and specifications

Description	A high quality heavy duty polyurethane industrial coating system. It cures on exposure into a tough and yet flexible film with a high order chemical resistance.		
Dilution	Use as supplied, however should thinning be necessary then dilute with RX-Toughseal UVC Thinners to a maximum of 20%.		
Application	Apply by brush or roller.		
Solvent	Xylene		
Standard colours available	Grey Green Yellow Black Clear		
Hardness	 Set to touch: 1-2 hours Tack free surface: 4-6 hours Hard dry: Overnight 		
Shelf life	6 Months in original unopened container.		
Chemical resistance	Acids, alkaline solutions. A full list of specific materials available on request.		
Film thickness	2 Coat system provides dry film thickness of 200 microns.		
Coverage	8m² - 10m² / Litre depending on porosity of concrete.		
Firra type	3 Coating		
Packing	5L Tins		
Uses	Warehouses, factories, workshops, chemical plants, plant rooms, battery charging areas.		





Chemical resistance table

	Surface deterioration	After how many hours
Distilled water	None	-
Tap water	None	-
Sea water	None	-
Sulphuric acid 10%	Discoloration	-
Hydrochloric acid 10%	Discoloration	-
Nitril acid 10%	Discoloration	-
Acetic acid 10%	Small blisters	10
Formic acid 10%	Small blisters	8
Lactic acid 25%	None	-
Citric acid 10%	None	-
Tannic acid solution	None	-
Linseed fatty acid	None	-
Soda solution 20%	None	-
Common salt solution 10%	None	-
Sugar solution 30%	None	-
Caustic pot ash solution 10%	None	-
Ammonia 10%	Blisters	20
Chlorine solution 3% free chlorine	None	-
Hydrogen peroxide 10%	None	-
Premium grade petrol (gasoline)	None	-
Cresol	Destroyed	5
Cylene	None	-
Methylene chloride	Destroyed	1
Ethyl glycol acetate	None	-





We take pride in the quality of our products and strive to provide the best in customer service. Our high standards extend to every aspect of our business including our RX-Toughseal UVC Applicators.

Contact us

Get in touch with our team for any enquiries: 011 896 9600 | info@robex.co.za www.robex.co.za