

## X550 CARPARK WAREHOUSE™

CURE & INVISIBLE PENETRATING SEALER



TDS 111 – V30 DEC 2024

### Description

X550 Carpark Warehouse™ if applied correctly, is a proprietary silicate silicate water-based formulation spray applied to new and existing concrete providing a hardened, abrasion resistant and dust-proof surface, stain resistant from oils and other contaminants, and compatible with line marking paints and acrylic or solvent based coating products.

A breathable, low VOC treatment for concrete, X550 Carpark Warehouse™ penetrates and chemically bonds to the silica, providing enhanced water repellence, oil, and stain resistance.

Adopting the use of X550 Carpark Warehouse™ at time of the concrete pour as an effective curing regime, will significantly reduce the incidence of dry shrinkage cracking, and provide a hardened, denser and dust proof concrete.

### Typical Applications

Examples for areas of use are as follows: Internal or external exposed concrete surfaces. multi-storey and ground level carparks, driveways, garages, warehouses, tilt panels, alfresco and communal areas

### Features and Benefits

Some features and benefits of X550 Carpark Warehouse™ include the following:

- Reduces oil staining.
- Enhanced traction quality.
- Provides a hardened, abrasion resistant, dust-proof surface.
- Densifies.
- Reduces tyre noise and marks.
- Effective curing regime.
- Reduces dry shrinkage cracking.
- Improves fungus / mildew resistance.
- Retards / eliminates efflorescence.
- Suitable for any concrete.
- Preserves original appearance.
- Matt no-sheen surface finish.
- Improved surface protection and stain resistance.
- LOW VOC, HACCP approved.
- Used on horizontal or vertical substrates.
- Temporary hydrophobic beading effect.
- Doesn't form a membrane - After trade friendly.
- Compatible with line marking paints and other coating products.
- UV Resistant and will not darken or yellow.
- Minimum site disruption and trafficable after 2 hours.
- Clear invisible finish.
- Long lasting & easily maintained / repairable.
- Non-flammable.
- Odourless.
- Environmentally friendly.
- Easy and safe to apply.
- Resists freeze -thaw damage.
- Test reports available on request.

Oxtek Solutions Pty Ltd H/O  
 5/ 17-19 Miles Street, Mulgrave VIC 3170  
 Phone: +61 39798 7534 Email: reception@oxtek.com.au

[www.oxtek.com.au](http://www.oxtek.com.au)

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## Physical Properties

Appearance	Low viscosity translucent green liquid
pH	Ca. 11.4
Flash Point	Not applicable
Relative Density	Ca. 1.13 @ 20°C
Volatile Organic Compounds (VOC) Content	<1g per Litre
Viscosity	Low
Odour	Almost odourless
Initial Boiling Point / Boiling Range	>100°C @ 760 mm Hg
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limits	Not applicable
Auto-ignition Temperature	Product not self-igniting
Solubility	Fully miscible in water

## Recommended Substrate Conditions & Preparation

<b>Product Coverage Rates:</b>	Freshly Placed Concrete:	Minimum 5m <sup>2</sup> per litre.
	Existing Concrete:	Minimum 5m <sup>2</sup> per litre.

### Important Notes:

1. Wax, paint, curing compounds or a burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X550 Carpark Warehouse™ to penetrate the substrate.
2. To test for adequate porosity, apply droplets of water on the concrete surface, if the droplets do not penetrate the concrete within 2 minutes, then X550 Carpark Warehouse™ will not function as intended and may be ineffective.
3. Areas of high porosity have a faster penetration rate. These areas that appear to penetrate immediately after spraying will require additional product. Re-application requires to be wet on wet, as when the product dries on the substrate surface the application will repel itself.
4. Do not apply on a frozen substrate or on a falling substrate temperature of below 3°C. Call for advice if applying during colder periods.
5. Do not apply on a substrate surface of 34°C or above. On hot days, the application of X550 Carpark Warehouse™ should take place in early morning or in the cool of the evening, out of direct sunlight.  
Do NOT apply if rain is forecast within 24 hours.

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6. X550 Carpark Warehouse™ may etch glass/tiles or dull brushed and shiny aluminium and can be difficult to remove from other surfaces once it dries. Cover and mask surrounding surfaces or rinse immediately if sprayed.
7. Incidental skin contact should not be hazardous, but ingestion or eye contact should be avoided. It is recommended to wear gloves, eye protection and a painter's mask during application.
8. Refer to MSDS available from [www.oxtek.com.au](http://www.oxtek.com.au).

## Application Guidelines

**Note:** In hot climates, mist-wet the surface with water and remove any puddles prior to application. Use best practice hot weather concrete placement techniques. The use of Aliphatic alcohol is recommended in hot and windy conditions and will not detrimentally affect the application and performance of X550 Carpark Warehouse™

### On Already-Set Concrete:

X550 Carpark Warehouse™ is to be applied to a clean absorbent surface free from any standing or pooling water on the substrate surface. It is highly recommended prior to commencing with a liberal application that a test undertaken on a small area to confirm suitability.

### At Time of Pour:

X550 Carpark Warehouse™ is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Concrete should be allowed time to adequately set, so not to imprint or mark its surface during application, or if site conditions require the surface to be walked on.

Please Note: If application is more than 4 hours after initial set, the benefits of using this product as an effective curing regime will be reduced (subject to climatic conditions).

### Application:

Apply X550 Carpark Warehouse™ using low-pressure non-atomising spray apparatus such as a pump-tank or battery pack sprayer, complete with fan spray nozzle. Holding spray tip (eg .019" - .024") 150mm from surface, apply X550 Carpark Warehouse™ at minimum rate of 5m<sup>2</sup>per litre with an overlapping spray pattern of 50%. Begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

Using a soft broom sweep and spread-out puddled product as it penetrates. Do not over apply X550 Carpark Warehouse™ and under no circumstance allow the applied product to puddle dry on the surface.

Do not apply a second coat if the first coat has penetrated the concrete and appears surface dry, as it will bead and will subsequently require to be removed.

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Note: Always begin application at the lowest elevation. For example, walls and slopes should be applied side-to-side, from the bottom up.

**Precaution:**

White precipitate may form on the substrate surface if X550 Carpark Warehouse™ is over applied or allowed to puddle dry. The surface should be washed and may need extensive scrubbing if this occurs, however it is extremely difficult to remove.

Protect all adjacent areas not intended for coverage as once X550 Carpark Warehouse™ is applied it is very difficult to remove from the surface when dry.

Cleaning of the concrete substrate surface should commence no earlier than 24 hours post completion of the X550 Carpark Warehouse™ application.

**Application to exposed raised aggregate substrates:**

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology. It is not recommended that the application of X550 Carpark Warehouse to exposed raised aggregate substrates is undertaken by personnel that have no or limited experience in sealing of concrete.

**Application to vertical substrates:**

Please contact Oxtek Solutions to confirm suitability for use, and for guidance on surface preparation requirements and application methodology.

**Additional Advice and Precautions:**

1. Protect areas not intended for coverage. Do not walk product onto any adjacent surfaces as marking may be permanent.
2. Restrict access to areas being treated as surface may be slippery until all product has penetrated the substrate or been removed from surface.

**Overcoat Timelines:**

Line marking paints and other coatings can be installed 14 days from the date of concrete placement and X550 Carpark Warehouse™ application.

If the X550 Carpark Warehouse™ is applied to a substrate that is older than 14 days, Line marking paints and other coatings can be installed 24 hours post application.

**Note:** Always follow line marking paint and or coating manufacturers surface preparation requirements.

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### Maintenance Recommendations

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#### Spillages:

All spillages should be removed as quickly as possible. This is good practice in terms of Health and Safety and the general upkeep of the treated surface. If spillages such as oil and grease are left longer than 24 hours on the surface some staining may occur.

#### Cleaning:

All areas should be cleaned on a regular and ongoing basis, by light scrubbing with warm water and detergent.

#### Repairs:

Localised repairs can easily be undertaken to damaged or heavily abraded areas. X550 Carpark Warehouse™ can be re-applied with a low-pressure spray by maintenance personnel – dry in approximately 30 minutes. Please note that although X550 Carpark Warehouse™ is an invisible penetrative densifier and sealer, it is likely that some darkening may appear on the treated surface, however this will have no detrimental effect on the performance of the product.

### Storage & Shelf Life

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- Must be stored out of direct sunlight.
- Storage temperature range: Max 38°C to Min 3°C.
- Shelf life is 3 years if stored as above in original unopened containers.
- To avoid contamination, decanted product must not be returned to container.
- Recommended usage: within – 30 days of opening.

Available in 5, 15, 200 and 1,000 litre containers.

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## Memberships & Certifications

Oxtek Solutions are actively committed towards best practice and environmentally friendly systems and procedures within the concrete and flooring industries.

We are proud to support this through our memberships and affiliations with the following industry bodies.

