



THE NAME SAYS IT ALL

X550 CARPARK WAREHOUSE™ Data Sheet

Issued: 3rd September 2020
Document #: TDS 550V1 NZ
Page 1 of 2



CARPARK & WAREHOUSE FLOOR PROTECTION

Description & Uses

X550 CARPARK Warehouse is a proprietary silicate silicate water based formulation applied to new and existing concrete giving excellent cure regime, reduced dusting, surface hardener and stain resistance from oils and is compatible with line marking acrylic or solvent based paints. Achieves the cure requirements of **NZS 3109,1997 & NZS 3101:Part 1:2006**.

Features and Benefits

- Resists oil staining
- Reduced tyre squeal
- Hardens surface
- Reduces dusts
- Densifies
- Clear invisible finish
- Environmentally friendly
- Low odour - 0.0g/L VOC
- Long lasting
- Lasting Stain protection
- Retards efflorescence
- Highly resistant to alkali attack
- Improves Fungus / Mildew Resistance
- Enhances Traction Quality
- Easy and safe to apply
- UV Resistant
- Non-Flammable
- Will not darken or yellow
- Low cost
- Easier cleaning
- Resists Freeze-Thaw Damage
- Equal to water pond cure
- Easy maintenance
- Saves time & cost

Recommended Substrate Conditions & Preparation

Important Notes:

1. Wax, paint, curing compounds or a highly burnished surface restricting access to concrete's interior must be chemically or mechanically removed for X550 Carpark Warehouse to penetrate and work properly.
2. Areas of high porosity have a faster penetration rate. These areas appear to drop in immediately after spraying and will require additional product. If the product surface dries it will repel itself, maintain a wet edge during application if possible.
3. Do not apply on frozen substrate or when temperature is below 3°C when getting colder or in full sun exposure or if surface exceeds 34°C
4. Do NOT apply if rain is forecast within 3 hours.
5. Before applying any paint, adhesives or any other coatings, wait 24 hours after application with X550 Carpark Warehouse. Clean if necessary. Follow coating manufacturers recommendations.
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. We recommend the use of a face mask during application. Refer to MSDS available from www.protectcretenz.co.nz or www.giltedge.co.nz

Application Procedure

Application Rates

Existing and Freshly Placed Concrete: 5m² per litre

Burnished Concrete: May vary depending on the level of burnishing. Refer to technical memo 17.06.20.

Available in 5, 15, 200 and 1000 litre containers.

Note: In hot windy climates, mist wet the surface with water and remove any puddles prior to application.

AS CURE: Apply as soon as possible after the concrete's initial set for optimum cure benefit.

EXISTING: Test for adequate porosity by spraying water onto the concrete surface. If the water does not penetrate into the concrete, mechanical abrading may be required.

NEW: Test small areas with product before starting full application. Product will sit on the surface for approx 15-20 minutes and be fully absorbed within 1 hour.

1. Use a pump pack garden type sprayer or a low pressure battery pack sprayer
2. Walls, ramps and slopes should be applied side to side, from the bottom up. Begin applying at the lowest level elevation.
3. For existing, soiled, used and old concrete, a two component Protect Crete system can be used. Call **Gilt Edge** for advice and specification.



X550 CARPARK WAREHOUSE™ Data Sheet

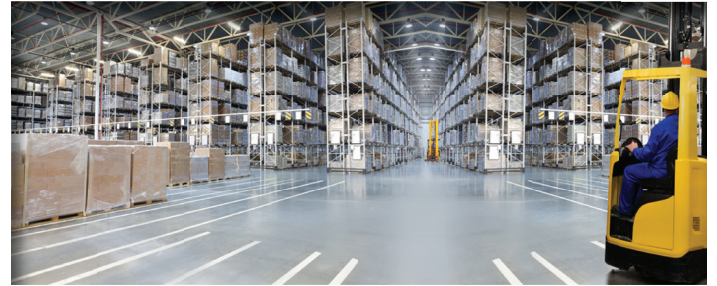
Technical
Data Sheet

Precautions

Issued: 3rd September 2020
Document #: TDS 550V1 NZ
Page 2 of 2

1. Like wet concrete and some high alkali cleaning products, X550 Carpark Warehouse will etch glass/tiles and will discolour brushed aluminium. Mask or clean off with a wet cloth as you go.
2. DO NOT allow product to dry on any surface not intended for application. Ensure that you don't mark the surface of new concrete with either your feet or pressure for the spray.
3. X550 is a penetrative product which sets as CSH gel in the capillaries of the concrete. In new concrete pours particularly, minerals may purge to the surface and will appear as a white powdery substance. This can be scrubbed off or will wear away.
4. Do not allow X550 Carpark Warehouse to dry in puddles on the concrete surface. One hour after application remove any puddles before they dry on the surface with a soft bristle broom, squeegee or blower.
5. Always test suitability and compatibility with your next process.
6. If a carpark building is suffering from rain water penetration through the slabs and alkali damage to cars parked below, do not rely on X550 to waterproof. In these situations use X230 Densi-Proof Repeller. Call a Gilt Edge consultant for advice.

Call today 0800 445833



Test		Control Sample	X550 Carpark Sample	Results Comparison
Designation	Property	All concrete controls are water cured		
AS 1012.9 ASTM C39	Compressive Strength	28.9MPa 4,191 psi	31.0 MPa 4,496 psi	7% Increase
AS 1012.8 ASTM C78	Flexural Strength	2.52 MPa 365 psi	2.89 MPa 419 psi	15% Increase
Chaplin AbraderA	abrasion Loss	2.47 mm 0.10 in	1.46 mm 0.06 in	41% Reduction
Surface Dusting		2.57 g/0.25 m ²	1.78 g/0.25 m ²	31% Reduction
ASTM C1202	Rapid Chloride Penetration	597 / 543 / 10.097 Coulombs	148 / 136 / 6.582 Coulombs	35% to 75% Reduction
HKHA B2.9	Sorptivity	0.164 mm/(min) ^{1/2}	0.010 mm/(min) ^{1/2}	94% Reduction



For more information visit: www.protectcretenz.co.nz or www.giltedge.co.nz



PROTECT CRETE NZ Ltd
PO Box 10080, Rotorua Mail Centre
Rotorua 3046
Ph: +64 9 441 9003
Email: sales@protectcretenz.co.nz



Gilt Edge Industries
CHC: 03 379 7067
AKL: 09 443 7067
PH: 0800 445833
Email: help@giltedge.co.nz

Technical & Sales Assistance
Email: sales@giltedge.co.nz
www.giltedge.co.nz

Manufactured by Oxtex Australia