



THE NAME SAYS IT ALL

X100 GREEN CURE

Technical Data Sheet

Issued: 3rd September 2020
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Description & Uses

A non membrane forming colloidal silicate proprietary solution that provides an exceptional cure regime equal to water pond curing. Apply to the concrete surface immediately after initial set. Very effective cure regime for shot crete. Conforms to and achieves the cure requirements of **NZS 3109:1997** and **NZS 3101:Part 1:2006**.

Features and Benefits

- Will cure concrete equal to water pond curing.
- Virtually eliminates plastic cracking.
- Low cost cure regime.
- Hardens surface and reduces dusts.
- Reduces shrinkage.
- Retards efflorescence.
- Can be used on vertical or horizontal substrates.
- Zero VOC, environmentally friendly, user safe.
- Compatible with most flooring and coating systems.
- After trade friendly.
- Indefinite shelf life.
- Minimum site disruption, trafficable after 2 hours.

Testing and Certifications

The American Concrete Institute, ACI, defines curing as, "The process by which hydrolic-cement concrete matures and develops hardened properties over time as a result of the continued hydration of the cement in the presence of sufficient water and heat." Water curing is widely regarded as the best curing method available. However, it is often replaced with less effective membrane-forming methods in deference to the

logistical and economic difficulties associated with water ponding.

X100 Green Cure is not a membrane-forming compound, so **AS 3799:1998** is not relevant.

The goal of curing is to improve the hardened properties of concrete. When applied properly **X100 Green Cure** achieves the cure results required under **NZS 3109:1997 Concrete Construction** and **NZS 3101: Part 1 2006**.

Recommended Substrate Conditions & Preparation

Important Notes:

1. Spray apply **X100 Green Cure** at a minimum of the Recommended Application Rates.
2. Do not apply on frozen substrate or when temperature is below 3°C when getting colder.
3. Do NOT apply if rain is forecast within 3 hours. If rain occurs in this time frame call your distributor for advice.
4. **X100 Green Cure** 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.
5. On burnished concrete spread rate can be extended, contact us for advice.

Additional Data and Precautions

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

1. Protect areas not intended for coverage.
2. As good safety practice during spraying we recommend the use of a face mask during application. Refer to SDS.
3. Restrict access to areas being treated as surface may be slippery until all product has dropped in or removed from surface.
4. The green colour in **X100 Green Cure** aids application and dissipates after drying.
5. For more information read Material Safety Data Sheet available at www.protectcretenz.co.nz



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Subsequent Coverings and Coatings

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X100 Green Cure does not provide a vapour or moisture barrier for impervious floorcoverings or coatings. Oxtex distributes and manufactures **Protect Crete X200 Densi Proof™** and **X220 Moisture-Fix®** that are designed for complete and permanent protection against vapour and water damage potential. If your building has a finishes scheduled for impervious flooring and or coatings you should specify and use **X200 Densi Proof™** at time of pour in lieu of **X100 Green Cure**. You will achieve the same cure benefits and have a warranted moisture suppression system that has stood the test of time in Australia and New Zealand

for over 19 years. If you realise that you will require a moisture barrier after the **X100 Green Cure** application **Moisture-Fix** can be applied over the top with minimum preparation again for a fully warranted moisture barrier system. **X200 Densi Proof™** and **X220 Moisture-Fix®** treat excess moisture established by testing as described in **Appendix A Floor Coverings Standard NZS 1884:2013**

Also see **Protect Crete X550 Carpark Warehouse** for an improved quality and stain resistant polished floor system.

Application Guide

APPLICATION RATES

Burnished or steel troweled : 5m² per litre.
Broom finished or open surfaced: 5m² per litre.

As a Cure Method at Time of Pour:

For optimum cure benefits it is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately set, so as not to imprint or mar its surface during application.

Apply evenly with a low-pressure non-atomizing, spray apparatus such as a pump-tank sprayer or battery pack sprayer. Allow material to penetrate (drop in) the surface and if you find that after an hour, that some areas have totally dropped and some not, then distribute the excess product over the dry areas. It is important that the product is distributed evenly by continuous working by soft broom in all directions to ensure the product is presented to all surface profiles. There is no need to put any pressure on the broom as it is only used to distribute the product evenly and if pressure is applied it tends to have the opposite effect in not leaving enough material on the surface. Do

not allow product to dry in puddles.

Caution: Like many construction materials including fresh concrete **X100 Green Cure** contacting glass should be flushed with water and not be allowed to dry, since glass may etch. **X100 Green Cure** will dull brushed and shiny aluminium, however, aluminium's integrity will be otherwise unaffected. Avoid windblown spray contamination of parked vehicles and adjacent buildings.

HOT TEMPERATURES Be sure to utilise good hot weather concrete placement techniques such as night pouring, shading or use of aliphatic alcohol to cool concrete during trowelling. In hot or windy conditions, the concrete surface temperature or wind may dry out the product prematurely before it has a chance to drop in thoroughly, in this case it is advisable to mist spray the surface with water and apply **X100 Green Cure** whilst the surface is damp but not puddled. This also helps with a relaxation of surface tension allowing a more efficient and faster penetration as well as premature evaporation or drying out.

CLEAN UP Clean up with water.

TRAINING Call Gilt Edge to arrange complimentary on site training for your staff or applicators.

Physical & Chemical Properties

Appearance:	Low viscosity liquid.
Colour:	Clear green hue
Odour:	Almost none.
pH:	Ca. 11.3.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Boiling Point/ Range:	> 100°C @ 760 mm Hg.
Solubility in Water:	Fully miscible.
Specific Gravity:	Ca. 1.08.
Flashpoint:	Not applicable.
Auto Ignition Temperature:	Product is not self igniting.
Flammability Limits:	Not applicable.
Viscosity:	Low.
Chemical Stability:	Stable under normal conditions.
Stability:	Stable at normal temperatures and pressure.
Thermal Decomposition:	No decomposition if used according to specifications.
Dangerous Reactions:	Strong exothermic reaction with acids. Reacts with light alloys to form hydrogen.
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Acids, light alloys.
Hazardous Decomposition Products:	No dangerous decomposition products known.



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



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