

Hexavalent Chrome Reducing Admixture for Cementitious Binders Concrete

DESCRIPTION



Concrete, grout and mortar made using binders containing ordinary portland cement such as GP and GB cement may produce a severe skin irritation and allergic eczema due to the presence of toxic Hexavalent Chromium Cr(VI). It is also listed as a human carcinogen. Cr(VI) created during the cement manufacturing process in rotary kilns can have a severe impact on human health if inhaled or in contact with skin. It also has a detrimental impact on the environment if released into ground water or other waterways. **TamCem EnviroGuard** eliminates the problem by reducing soluble Cr(VI) to the non-toxic Trivalent Chromium Cr(III) during the batching process.

TamCem EnviroGuard is a non-chloride, liquid admixture complying with the requirements of AS1478.1-2000 Type SN admixture. TamCem EnviroGuard is compatible with all cements and standard admixtures meeting recognised international standards.

KEY BENEFITS

- › Reduction of soluble Hexavalent Chromium in concrete, grout and mortar mixes containing Cementitious binders.
- › Promotes improved Health, Safety & Wellbeing of applicators and reduces the impact of concrete, grout and mortar to the environment.
- › Provides an economical solution that is both environmentally friendly and sustainable.

TYPICAL APPLICATIONS

- › Plant mixed concrete, grout and mortar.
- › Site mixed concrete, grout and mortar.

TECHNICAL DATA

TamCem EnviroGuard	
Form	Liquid
Colour	Light green to brownish
Density (g/cm ³)	~1.26
Solids (% w/w)	~25
pH	1.5 - 3.0
Chloride content (% w/w)	< 0.1
% Cr(VI) Reduction	> 99.5

All technical data stated herein is based on tests carried out at 23 ± 2°C, under controlled laboratory conditions.

APPLICATION GUIDELINES

MIXING

Add TamCem EnviroGuard at a dose rate of 600ml per 100kg cementitious binder into the initial mixing water to ensure an even and uniform distribution throughout the mix.

PACKAGING & STORAGE

TamCem EnviroGuard can be supplied in 20L pails or 1000L IBCs.

TamCem EnviroGuard should be stored undercover in cool, dry conditions. Avoid heat and strong sunlight. If packages are unopened and in sound condition and kept in a cool dry location, then a shelf life of 12 Months may be expected.

HEALTH & SAFETY

TamCem EnviroGuard should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product. Please note regional climatic conditions may cause a variation in the performance of the product. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous data. Please check with your local Normet office to confirm that this is current issue.