Textile Protector

Technical Data Sheet

Liquid Quartz by DECORGARD®

1 Description

Liquid Quartz Textile Protector by Decorgard is the most advanced fibre protection technology available, designed in Germany and Made in Australia, combining innovation with the natural power of quartz. Designed for use on all natural and synthetic fabrics, as well as most leathers, it creates an invisible shield that repels spills and soiling and keeps textiles looking pristine for longer.

Liquid Quartz Textile Protector surrounds every fibre with a matrix network of nanoparticles that are extremely hydrophobic and oleophobic; that is, they repel both liquids and contaminants. Liquid spills will either run off or sit on top of the fabric and can be easily shaken off or soaked up using a paper towel or similar. The liquids will not soak into the textile, eliminating any potential staining.

The matrix bond with the textile fibres enables excellent abrasion resistance, while maintaining breathability of the textile or treated item.

The durability of Liquid Quartz Textile Protector depends on several factors, such as the frequency of wear, cleaning and mechanical abrasion. In ideal conditions a single treatment could last up to three years. Assuming "average" use.

2 Features and Benefits

- Long lasting protection for a wide range fabric and textiles including cotton, leather, nubuck, suede, polyester, wool and silks . All protein, cellolosic ,synthetic or blended compositions.
- Protection against stains and dirt: Thanks to its hydrophobic and oleophobic properties, liquids, dirt and oils simply bead off the surface. This protects the fabric and significantly eases cleaning.
- Increased durability: The protective layer preserves textiles from abrasion and external influences, allowing them to maintain their like-new appearance for longer.
- Environmentally friendly: Our non-toxic coating is a safe alternative for people and the environment – completely free from harmful chemicals.
- Biocompatibility: Perfect for textiles in contact with skin, such as in the fashion industry or for medical applications.
- Versatile applications: OEMs and premium manufacturers from the furniture, rug and design industry rely on our PFC- and PFAS-free technology that meets the highest environmental standards while providing powerful protective functions.
- Maintains the look, feel and characteristics of the textile.
- Totally invisible
- UV-stable (i.e. will help prevent discolouration due to sunlight)
- Non allergenic and environmentally friendly.
- Hybrid Water based and harmless to your skin.
- Certified to the OEKO-TEX Standard 100. WoolSafe and CleanSeal Approved.
- Can be used indoors and outdoors.
- Prevents mould on outdoor and indoor textiles.

3 Application

- Upholstery - both residential and commercial - such as sofas, chairs, Curtains, Blinds, Beds, table cloths and bedding
- Area Rugs and Wall to Wall Carpets. Natural and Synthetic.
- Outdoor furniture, Umbrellas and Awnings
- Automotive seats and public transport seating
- Marine & Aerospace Textiles
- Pet Bedding
- All types of clothing and footwear, especially outdoor wear.

4 Surface Preparation

Ensure that surface to be coated is clean, dry and free of any other coatings including cleaning agents prior to application.

If Liquid Quartz Textile Protector is applied to an article of clothing to be worn, or removeable washable furniture covers where appropriate, we recommend that the article be washed first and then all traces of washing powder and/or fabric softener be removed by rewashing in water only. For other applications vacuum and clean the fabric or leather surfaces to be coated to ensure loose dirt and fibres are removed, prior to applying Liquid Quartz Textile Protector.

5 Directions for Use

Ensure surface has been prepared properly and is clean and dry

Shake the container before use and re-shake every 15-20 minutes to ensure the nano particles are fully suspended.

Simply spray on Liquid Quartz from a distance of about 20cm to the fabric to fully dampen but not saturate the fabric / material. If applying to leather, use a soft clean cloth to rub in the coating and do not let it pool. When applying to furniture, we recommend agitating the coating in with a soft bristle brush to ensure all the fibres of material are covered.

For application on carpet we recommend a wet-on-wet application (i.e. two coating) with some gentle agitation (soft bristle brush or rubber blade) to work the coating into the carpet strands between each spray.

The surface is usually touch dry in 2 hours but be allowed to dry for 24 hours before use (longer if in high humidity).

Liquid Quartz is available in a ready to use spray continuous spray bottle and is designed for use by both consumers and professional cleaners and manufacturers. You don't need to be an expert to apply the product.

Specific application instructions:

NOTE:
In case of sensitive surfaces, we recommend testing in an inconspicuous area, test for colour-fastness by spraying on a hidden area until damp and blot with a white cloth. If colour transfers or appearance changes, do not use! It is best to wait for full drying up to 24 hours to check for appearance changes especially on cellulosic fibres.

Cautions

- Do not apply to external surfaces in rain or when rain is expected within 12-24 hours.
- DO NOT THIN. Liquid Quartz is ready to use. Shake thoroughly prior to use.
- Do not use with other waterproofing products.
- Apply in a dust-free environment to avoid surface contamination.

Working Conditions:

- The wearing of protective gloves/protective clothing/eye protection/face protection is recommended when using this product for large scale applications or when using HVLP spray equipment. Final choice of personal protective equipment will depend upon individual circumstances and/or according to risk assessments undertaken.
- Consult SDS for proper handling, clean-up, disposal, and use of personal protective equipment.
- Avoid breathing in spray.
- Store in a sealed container and keep away from children.
- Clean equipment immediately after using.
- Protection of adjacent porous areas from overspray and runoff is recommended but not necessary for non-porous surfaces.
- Ensure any overspray be wiped off adjacent with a dry cloth as soon as possible.

6 Coverage

Consumption will vary depending upon on the absorbance of the textile, however expected usage is between 60 and 100ml/M^2

Some highly absorbent fabric may require 100ml/M^2

Rugs & Carpet are usually highly absorbent and each application will require 80 – 100ml per M2 so wet on wet application will require 160-200ml/M^2

The durability of the coating is dependent on several factors including, the type of material or item that it is applied to and the mechanical stress applied to the surface. For items not subject to washing the affect will last for up to 2 years.

If the performance of the coating starts to deteriorate, another application coating should be applied to re-establish full protection. This will not damage the material in any way.

7 Cure Time

Touch dry in 60 min, however for best results allow coated textile to dry for 24 hours.

8 Physical Properties

Colour:	Colourless to light yellow
Flash Point:	None
pH:	6-7
Solvent:	Water
Specific gravity:	1.002-1.006
Odour:	Odourless
VOC Content:	Below detectible limit
Boiling Point:	>97 °C

9 Packaging

Liquid Quartz Textile Protector is available in the following pack sizes:

- 500ml Continuous Spray Bottle
- 5L bulk bottle

10 Shelf Life and Storage

- Unopened original containers can be stored for at least 2 years in cool conditions.
- Opened containers can be stored for up to 12 months in cool conditions.

11 Safety Instructions

The instructions on the Liquid Quartz Textile Protector Safety Data Sheet must always be followed.

- Store in a sealed container and keep away from children.

- In the event of eye contact, wash out immediately with cold water . Seek medical advice if necessary.
- Do not swallow. Seek medical advice if necessary.
- Recommended storage and transport temperature: +3 to +30oC
- For spills DO NOT scrub the fabric, soak up the spill with a paper towel and damp cloth / sponge.
- The wearing of gloves is optional but recommended.
- Please ensure the area being treated is well ventilated.
- When applying outside avoid applying in windy conditions.

12 Surface Maintenance

Coated surfaces become strongly hydrophobic repelling both water and contaminants. Liquid spills will either run off or sit on top of the surface and can easily be soaked up using a paper towel or similar. To completely remove marks, gently dab with a damp cloth.

Do not scrub or allow spills to remain on the coated surface. Remove spills with a paper towel,damp cloth or PSP Chamois Sponge. To remove marks dab fabric with a damp cloth. Do not rub or scrub fabric. For stubborn marks we suggest dabbing with the PSP WonderSpot textile and rug spot cleaner.

Do not attempt to physically rub liquids into the fabric to test the coating, there is heightened probability of damage and staining which may occur. It is important to understand that Liquid Quartz Textile Protector is aimed at protecting against everyday accidental spills and general wear and tear due to accidental liquid spillages.

13 Disclaimer

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Users should satisfy themselves that it is suitable for their needs. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. As we cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, Culmore Technologies Pty Ltd will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implies mandatory by law.

Users should always refer to the most recent issue of the Technical Data Sheet available from www.culmoretech.com