

# DELTA ROOF GUARD CP

Delta Roof Guard CP is a one component liquid waterproofing composition, after polymerization gives an elastomeric, cold-applied polyurethane membrane. The membrane cures in a continuous and elastic form, as a totally adhered layer. This waterproofing layer guarantees total water tightness and withstands building movements.



## APPLICATION

- Balconies, terraces
- Baths (showers), kitchens and difficult access spots
- Flooring with light pedestrian traffic
- Stairs, stadiums, stands

## ADVANTAGES

Elastic and seamless coating, weather resistant and excellent bonding. No reinforcement usually required except at critical points.

## SAFETY REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:

1. Flat and levelled (Delta Roof Guard CP is self-levelling)
2. Compact and cohesive (pull off test must show a minimum resistance of 1.4 N/mm<sup>2</sup>).
3. Even and regular surface
4. Free from cracks and fissures. If any, they must be previously repaired
5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance

## RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature should be between 0°C and 40°C. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice. Air temperature must be between 0°C and 30°C. High moisture conditions can lead to bubble formation under the membrane surface. In cold weather, or when curing time has to be shorter, accelerators can be used. More information under request.

## SUPPORT PREPARATIONS

Stir and homogenise the product before use. Some of the contents settle during storage and must be redispersed. Allow some minutes to release air bubbles. Stirring should be done at low speed. If needed, the product may be thinned with up to 10% of Delta Roof Guard PU solvent, as a viscosity adjustment. Never use universal or unknown solvents (e.g. white spirit or alcohols). Apply by roller, brush, spreader or airless equipment. It is useful to apply in 2 differently coloured coats, at 1 kg/m<sup>2</sup> each. Although not strictly necessary, it is strongly recommended to use entirely the product of the container. If there is some product left, ensure it is completely sealed after use. Use a spiked roller immediately after spreading in order to reduce bubbling.

## CURING TIME

Curing time is dependent on the environmental conditions. Curing rate increases with temperature and humidity rises. The following table gives a rough estimation of the curing time under diverse conditions for a 1mm coat.

Temperature (°C)	RH (%)	Dry to touch (h)
16	50	3
20	50	2.5

## RETURN TO SERVICE

At usual conditions, the membrane achieves up to 90% of its final properties in 3 days. Usually walking time is 1 or 2 days. Final hardness is not achieved until 10 or 15 days. It is preferable to wait this time before contact with water is allowed.

## TOOL CLEANING

Delta Liquid Roof Guard CP can be cleaned with Delta Roof Guard PU Solvent, acetone and alcohols. Once hardened, it cannot be dissolved.

# DELTA ROOF GUARD COLODUR

## CLEANING & MAINTENANCE

All maintenance work must be carried out regularly on the treated roofs according to the intended use.

This work includes the following tasks:

- Leaf removal
- Grass, dirt, moss and other vegetation removal
- Keeping storm water system in good working order
- Ensure gratings are in place, in order to prevent gutter obstruction
- Check proper condition of several structures (flashing, seams retaining walls, etc.)
- Verification of possible damages due to improper use

If an aesthetic appearance of the roof is an important issue, it is essential to regularly clean the surface with water (some mild detergent may be added), according to the use. It may be necessary to reapply decorative layers (Delta Roof Guard Colodur) if they are worn out due to traffic, weather, corrosion, etc. For stain removal, a surface treatment with Delta Roof Guard solvent or isopropyl alcohol may be attempted. Strong acids are totally inadequate. Some solvents may damage the membrane. If this happens, the affected area has to be cut and repaired with a new Delta Roof Guard CP application.

Problem	Question	Cause	Solution
Film remains white and sticky	Suitable solvent	Slow reaction rate	Remove and change primer system
	Too Diluted	An excess of solvent slows the curing rate	Use less diluted product
	Temperature	Normal at low temperatures	Below 15 degrees use of accelerator is advised
Bubbles	Porous Support	High temperature	Wait until temperature drops and apply a first coat, diluted at less than 500g/m2
	Non-Porous Support	Stirring too fast	Wait deaeration after stirring. Use spike roller after application
Blisters		Moisture pigment	Use proper priming cut and repair affected area
Poor hiding power	Horizontal	Too little product	Follow minimum 1kg/m2 rule each coat
	Vertical	Normal in a self-levelling product	Use thixotropy or thickening additives from Delta Roof Guard
Grey turns green	Important	Aromatic-type isocyanates turn yellow/brown under sunlight	Last coat in dark colour or provide aliphatic topcoat
In case of rain			Water droplets will create craters if the membrane has not developed a surface skin yet. Apply a second coat to correct these defects. Overall membrane properties are not affected by slight surface cratering
What if permanent contact is possible			Use Roof Guard Aqua 2k version instead
Can hot asphalt be poured on the membrane			Laboratory testing shows that pouring of hot (160°C) asphalt on a combination of Delta Roof Guard+Geom ax does not affect the membrane
High viscosity		In-can evolution	Normal. viscosity rises along the shelf life. It can be adjusted using Delta Roof Guard Solvent

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## SAFETY

Delta Roof Guard CP contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a general rule, suitable ventilation must be ensured, and all ignition sources must be avoided. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

## ENVIRONMENTAL PRECAUTIONS

Empty containers must be handled taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorized waste manager. If there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.



## OTHER INFORMATION

Disclaimer: All data and information contained in these Product/Technical Data Sheets is up-to-date and correct as at the date of issue. The information given is suggested as guidance and should only be used for evaluating your specific application. Delta Membrane Systems Limited 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. The information contained in these Product/Technical Data Sheets should not be considered a warranty, expressed or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose. In no event shall Delta Membrane Systems Limited be liable for any incidental or consequential damages resulting from the use, misuse or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. When in doubt, contact Delta's Technical Team on 01992 523 523.