

DELTA ROOF GUARD QC

Delta Roof Guard QC is a one component liquid semi-thixotropic 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. Its fast-curing rate allows its use as a base coat or reinforcing layer when the usual Delta Roof Guard QC curing time makes the overall job to take undesirably long time to complete (e.g. low temperature applications).



APPLICATION

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

ADVANTAGES

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

SUPPORT REQUIREMENTS

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

1. Flat and levelled (the product is self-levelling)
2. Compact and cohesive (pull off test must show a minimum resistance of 1.4 N/mm²)
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 heritage buildings

RECOMMENDED ENVIRONMENTAL CONDITIONS

Support temperature should be between 0°C and 30°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 temperature and moisture conditions can reduce the pot life and lead to bubble formation under the membrane surface, and a deficient appearance.

MIXING AND APPLICATION GUIDELINES

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, avoiding mechanical means to prevent bubbles. 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 1.5-2 kg/m² each. It is strongly recommended to use entirely the product of the container. Non used product even kept in a closed container, may develop a thick cured skin on the surface.

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	RH	Dry to touch (h)
7	50	4
27	60	1

RETURN TO SERVICE

At usual conditions (25°C, 50%) the membrane achieves up to 90% of its final properties in 3 to 4 days. Final hardness is not achieved until 10 or 15 days. It is preferable to wait this time before permanent contact with water is allowed. Reapplication is possible as soon as the curing state of the first coat allows walking and working on it, and it should be done before 48 hours.

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TOOL CLEANING

Delta Roof Guard QC can be cleaned with Delta Roof Guard PU Solvent, acetone, and alcohols. Once hardened, it cannot be dissolved. It is recommended to clean equipment as soon as possible.

Problem	Question	Cause	Solution
Does not cure	Suitable solvent	Some thinning solvents are not suitable	Apply a second coat only using Delta Roof Guard Solvent as a dilutant
	Too diluted	An excess if solvent slows the curing rate	Use less diluted product
	Temp to low		Use of Delta Roof Guard Super Accelerate is possible
High Viscosity			Normal evolution in storage. Can be adjusted using Delta Roof Guard PU Solvent

CLEANING AND MAINTENANCE

Delta Roof Guard QC 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.