

Technical Data Sheet

STARCOAT® QC

Cold Applied Liquid Waterproofing

A quick curing single component polyurethane cold applied liquid waterproofing system for use on new and refurbishment projects.

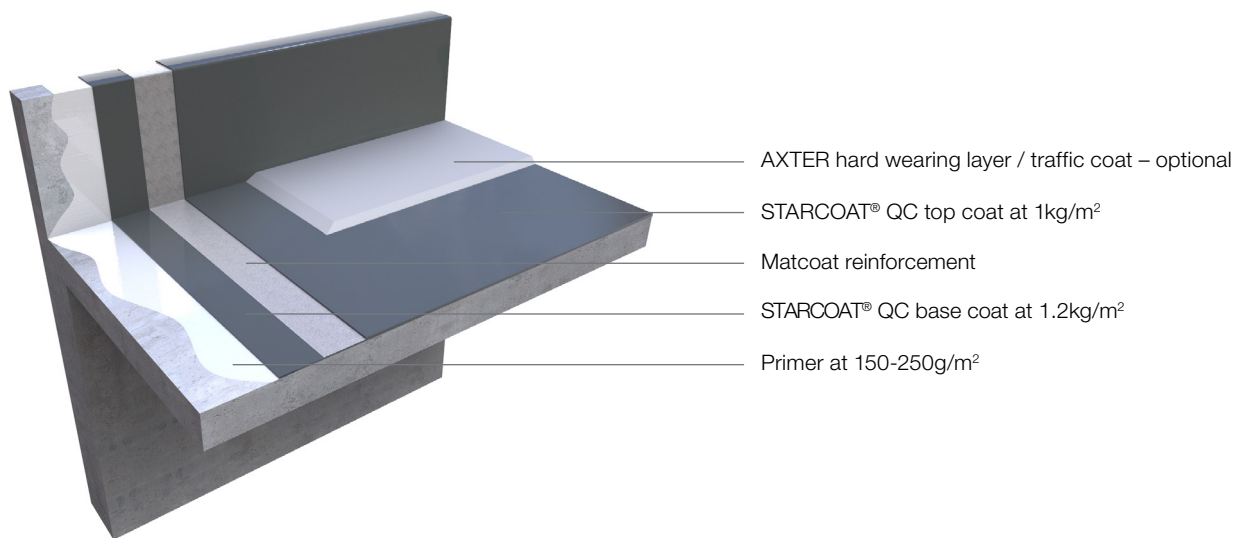
STARCOAT® QC is compatible with mastic asphalt, bituminous membranes and single ply PVC roof coverings and is ideal for use as a stand-alone remedial or primary waterproofing system.

Key Advantages

- Single component system
- Tough, elastomeric membrane capable of withstanding structural and thermal movement
- Quick curing time of 4-8 hours
- Rain proof after 3-4 hours at ambient temp of 20°C
- Range of colours and wearing courses available
- Self terminating system
- BBA approved, Certificate No 13/5031
- 25 year manufacturer service life
- 20 year guarantee covering workmanship, materials and design

Characteristics

PHYSICAL STATE	Liquid
COLOUR	Dark grey RAL 7043 Green RAL 6021
DRUM SIZE	25kg (field area) 10kg (detailing)
COVERAGE RATE	2.2kg/m ² installed in two coats: 1.2kg/m ² base coat 1kg/m ² top coat



Quality Assurance

STARCOAT® QC cold applied liquid waterproofing is manufactured to the highest quality standards and audited to ISO 9001 & 14001 Quality and Environmental accreditation.

Certification

STARCOAT® QC roof waterproofing systems are British Board of Agrément (BBA) approved under certificate number 13/5031.

Fire Performance

STARCOAT® QC achieves the designation of EXT.F.AC when tested in accordance with BS476:Part3:2004 Incorporating Amendment 1: 2006 and Amendment 2: 2007. When classified in accordance with BS EN 13501-5 : 2005 STARCOAT® QC is designated BRoofT4.

Application Method

STARCOAT® QC can be installed by brush, roller, spreader or airless spray method. Applicators should be basic competency programme (BCP) accredited and have successfully attended Axter's liquid waterproofing upskilling course.

Preparation

In order to achieve satisfactory surface absorption and adhesion, the substrate must:

- be flat, smooth and designed to appropriate drainage falls post deflection and tolerance (STARCOAT® QC is self-levelling) all in accordance with BS 6229 : 2018.
- be secure and stable (on site pull off / adhesion tests should show a minimum resistance of 1.5 N/mm²).
- provide an even and regular surface free from large bumps and sharp edges.
- be free from large cracks and surface fissures. If any exist, these must be repaired prior to installation.
- be clean and dry (<4% moisture content), free of dust, loose particles, oils, organic residues or laitance.

Application Guidelines

The temperature of the substrate must be between 0°C and 30°C. At higher temperatures specific precautionary measures must be taken.

Air temperature must be between 10°C and 30°C.

Note: installation during high temperatures and moisture levels can reduce the drum life and may lead to the formation of bubbles under the membrane surface that cause deficiencies in finished appearance.

Stir gently before use to create a homogeneous mix. Contents can settle during transportation and storage and should be re-mixed prior to use. Once mixed, allow a few minutes for air bubbles to disperse.

If needed, the product may be thinned with up to 10% of solvent, e.g. Dilucoat solvent, to adjust viscosity. Note: never use universal or unknown solvents such as white spirit or alcohols.

Axter recommends using the entire contents of the drum in one application period as un-used product, even when kept in a closed container, may develop a thick cured skin on the surface. STARCOAT® QC 25kg drums should be used for field area application and 10kg drums for detailing to reduce material wastage. It is not possible to re-seal STARCOAT® QC drums once opened.

STARCOAT® QC can be cleaned off application tools with Dilucoat solvent, acetone and alcohols. Once hardened, STARCOAT® QC cannot be dissolved and tools should be disposed of responsibly.

Note: tool equipment should be cleaned as soon as possible to prevent unnecessary waste.

Curing Time

Product curing time is dependent upon environmental conditions during installation. The curing rate increases as temperature and humidity rises. The following table provides approximate curing times in various climatic conditions, based upon a single 1mm thick product coating.

TEMPERATURE °C	RELATIVE HUMIDITY (%)	DRY TO TOUCH (HRS)
7	50	4
27	60	1

In normal conditions (25°C, 50% relative humidity) the STARCOAT® QC membrane achieves up to 90% of its final properties in 3 to 4 days curing. Final hardness will be achieved within 10 to 15 days curing. Permanent contact with water should be avoided during this time.

Reapplication is possible once the first coat is sufficiently cured to be walked and worked on (approximately 4-6hours) and should be completed within 48 hours.

Health and Safety

Safety data sheets are available for all materials. Please contact Axter for further information.

Delivery and Storage

Containers are delivered palletized with a protective shrink wrapping. The product is to be transported and stored upright. If the product is removed from its original factory condition packaging, drums should be stored upright on a firm flat surface.

All containers must be stored under cover in a cool, dry, ventilated location away from other chemicals and any source of ignition. Storage temperatures should preferably be below 20°C with all materials protected from sub-zero temperatures and direct sunlight. Rolls of Matcoat reinforcement fabric should be stored flat in a dry, clean environment and protected from moisture. Axter Limited take no liability for damage resulting from contravention of the above guidance.

Technical Support

Project specific design guidance and technical support is freely available from Axter.
Please contact info@axterltd.co.uk.

DISCLAIMER

NOTE: The information contained within this technical information sheet is provided in good faith by the manufacturer Axter Limited. Whilst every effort has been made to ensure the contents of this document are correct at point of issue, the manufacturer reserves the right to modify product characteristics at any time without notification. Customers are advised to contact Axter Limited directly to obtain the most up to date and current information. Axter Limited cannot accept any liability for misinterpretation of this document and no responsibility will be accepted for incorrect product specification, application and general use where the manufacturer's instructions have not been followed. All products are sold subject to Axter Limited standard conditions of sales, available upon request.