

Technical Bulletin

ADOCOAT TFC

ADOCOAT TFC is a non-VOC, solvent free, professional grade epoxy system. It is supplied as a two-pack system and cures to give a highly durable waterproof coating. The product can be specified into most commercial and light industrial applications; it exhibits high substrate adhesion, a broad range of chemical resistance, U.V. resistance and a Class 1 fire rating. It is ideally suited to provide protection against non-potable water, brine, mineral acids, alkalis and plant derived materials such as vegetable oils. Chemical resistance to other chemicals should be queried with the Technical Department prior to specification. The product can be blinded with aggregate to provide a slip resistant surface or a key for rendering etc.

Can be applied to steel, concrete and masonry. The product may be specified as a general high-performance damp proof membrane to prevent water ingress into subterranean structures. It finds general use in industrial applications (factories, sewage works, warehouses etc.) as one of the market's toughest and most durable surface coatings. The product is recommended for applications where performance is a higher priority than aesthetics.

APPLICATION AREAS

- Ground floor DPM
- Wet Rooms
- Subterranean structures
- Basements
- Tank bunding
- Plant rooms
- Marine facilities
- Swimming pools

SPECIFICATION

Property

S.G	Base: 1.375 Hardener: 1.070
Appearance (Base + Hardener)	Mobile, thixotropic liquid. Coloured as per supply.
Coverage	4m ² /litre
Non-Volatile Contents	Min. 99%
Drying Time	4-6 hours at 23°C
Dry Film Thickness (DFT)	250 microns (0.25mm) / coat 2 coat system = 500 microns (0.5mm)
Pot Life	Min. 25 mins at 25°C
Full Cure Time (Full Chemical Resistance)	7 days
Tensile strength	>11N/mm ²
Flash point	Non-flammable

ADDITIONAL INFORMATION

APPLICATION

Surfaces should be smooth, clean, dry, sound and free from frost, oils, grease and other contamination. Product may be applied to 'green' concrete. Any surface defects (holes etc.) should be filled with a suitable filler.

For masonry applications, joints should be flush pointed with a suitable cementitious product prior to application. Where existing surfaces are very rough, a sand/cement render coat may be required.

For metal applications, prepare the surface by wire brushing or sand blasting. Treat the surface with an anti-corrosive primer for best results. Alkyd and epoxy-based steel primer primers are compatible.

For concrete applications, surfaces should be smooth. Mildly tamped, brushed and floated surfaces are also acceptable.

The minimum ambient temperature for application is 5°C, it is not recommended to apply the product at temperatures below this as a cure will not be achieved. Ensure reasonable ventilation to obtain best cure.

Over the prepared surface, apply ADOCOAT TFC in two coats. Mechanically stir the base component for a minimum of 3 minutes, add the full measure of the hardener component and continue to stir until uniform in colour. The recommended application is 4m²/litre. Apply by brush, roller or spray. Use a medium pile roller or stiff brush if applying manually.

At room temperature ADOCOAT TFC will cure in 4-6 hours. Allow longer cure times at lower temperatures. The second coat must be applied within 7 days of the first coat. If the coating is tacky to the touch, wait until fully dry before over-coating.

In certain areas where working with/in and around angles and joints, ADOCOAT PROFLEX, a flexible liquid epoxy system, can be applied over ADOCOAT TFC for joint reinforcement. ADOCOAT PROFLEX must be applied within 7 days of the last coat of ADOCOAT TFC. The recommended application rate is 1m²/litre. Please request a TDS for ADOCOAT PROFLEX as required.

Where specified into walkways or floor surfacing it is highly recommended the second coat is blinded to provide slip resistance. Apply the system as described above, for the second coat blind with Grade 2 Aggregate at 1m²/kg.

Where specified behind screeds, render or tiles it is also recommended the second coat is blinded to provide a mechanical key. Apply the system as described above, for the second coat blind with Grade 1 Aggregate at 1m²/kg.

In all applications, full chemical resistance of the system will require a 7-day period following the last coat.

REGULATORY

CE Marked (compliant to BS EN 1504-2:2004: Products and systems for the protection and repair of concrete structures)

Class 1 (BS 476-7:1997: Fire tests on building materials and structures)

NBS: Clause J30 10, 130 – Liquid Applied Damp Proofing

Type A Barrier Protection in Accordance with BS8102(2009).

NBS: Clause J31 – Liquid Applied Waterproof Roof Coatings.

For Type A structures (BS 8102: 2009), the product can provide the protection level for Grades 1, 2 & 3 basements.

All components are REACH (Reg. (EC) No 1907/2006) registered. The product does not contain any Substances of Very High Concern (SVHC).

TOXICITY AND SAFETY

Product is classified as hazardous according to the CLP Regulation (Reg. (EC) No 1272/2008). Refer to the Product Safety Data Sheet for recommended safety precautions. It is recommended the end user wear safety glasses, safety gloves and protective clothing during application. Wear a suitable respirator if working within an enclosed area and sensitive to amines. Avoid direct contact with skin and eyes.

HANDLING AND STORAGE

The Product has a 12-month shelf life subject to storing in a cool, dry, well ventilated area. Keep containers tightly closed. Store in the original manufacturer supplied containers.

AVAILABILITY

ADOCOAT TFC BASE & HARDENER (FOR 5LT SYSTEM)

ADOCOAT TFC BASE & HARDENER (FOR 20LT SYSTEM)

For non-standard pack sizes, please contact us directly with your enquiry.

AGGREGATE GRADE 1 25KG*

AGGREGATE GRADE 2 25KG *

*Ancillary products