X-ARMOUR

ADVANCED PROTECTIVE ROOF COATING



PRODUCT DESCRIPTION

Titan Shield X-Armour is a ready-to-use, cold-applied rubber-based waterproof roof coating intended for refurbishment and overlay applications where increased service life is required. It forms a flexible, seamless waterproof coating and can be applied as a single-coat system, a primed system or as a fully reinforced built-up system.

ADVANCED SINGLE COAT	Cold applied; no hot works. Minimum application rate 1 litre/m².
WATERPROOF PROTECTION	Light rainfall immediately after application has no adverse effect.
FLEXIBLE SYSTEM	Suitable for a broad range of roof substrates when prepared and primed as required.
RESEALABLE	Once opened, the source product can be resealed and used again when correctly stored.

SUITABLE SUBSTRATES / USES

Flat and pitched roofs, weathered asphalt and bituminous surfaces, concrete, brickwork, GRP/fibreglass, felt, metals and EPDM, subject to the manufacturer's preparation, primer and adhesion requirements.

LAUNCH PACK SIZES

5kg tin and 20kg tin. Confirmed Titan Shield launch pack sizes.

PERFORMANCE & APPLICATION DATA

Property	Source-backed specification
System type	Cold-applied rubber-based waterproofing system
Application	Brush or solvent-resistant roller; source also references squeegee
Application temperature	5°C to 30°C
Single-coat spreading rate	Minimum 1 litre/m²
Fully scrimmed base coat	Minimum 1 litre/m²
Fully scrimmed topcoat	Minimum 0.5 litre/m²
Drying time	Up to 8 hours or overnight, depending on temperature and conditions
Full cure	Up to 7 days
Water repellency	Light rainfall immediately after application has no adverse effect
Shelf life	Up to 2 years from date of manufacture when correctly stored unopened
Source colour range	Grey, Black, Solar Reflective White; other colours to order

PREPARATION

Clear moss, lichen and debris by brushing or power washing. Remove surface water and contamination such as oil or grease and allow the substrate to dry. Repair splits, cracks, joints, seals and other surface faults using a suitable roofing-grade repair material. Primer selection depends on the substrate and intended system.

STANDARD APPLICATION

1. Ensure the substrate is clean, dry and free from debris and contaminants.
2. Carry out local repairs with a suitable non-silicone roofing-grade mastic/filler.
3. Apply the appropriate primer where required and allow it to dry.
4. Stir X-Armour thoroughly without introducing air. Do not thin.
5. Apply at a minimum rate of 1 litre/m².
6. Allow up to 8 hours or overnight to dry, depending on conditions.
7. Full cure may take up to 7 days.

FULLY REINFORCED SYSTEM

Where a fully scrimmed system is specified, reinforcing scrim should be embedded into a wet base coat applied at a minimum 1 litre/m². Reinforcement should overlap by 50mm and be fully saturated. Once dry, apply a topcoat at a minimum 0.5 litre/m² so the reinforcement is fully encapsulated.

LIMITATIONS, PRIMERS & SAFETY

IMPORTANT LIMITATIONS

Do not use on walkways, balconies, gutters, tanking, fish ponds, new lead, slate or for internal use. Do not use on new bituminous primers, coatings or surfaces. Follow the manufacturer's substrate and roofing-fall requirements.

PRIMER REQUIREMENTS

The manufacturer source specifies different primers for porous/friable substrates, concrete/GRP/fibreglass, weathered asphalt and bituminous surfaces, metals, timber/OSB/plywood, EPDM and certain weathered single-ply membranes. Adhesion testing is recommended on existing coatings and difficult substrates.

PRECAUTIONS

The source product is flammable. Keep away from ignition sources and ensure good ventilation during application. Wear suitable gloves, eye protection and protective clothing. Avoid release to drains and aquatic environments. For cleaning, the source data specifies White Spirit. Refer to the current Safety Data Sheet before use.

FIRE PERFORMANCE CLAIM

The source manufacturer data references external fire performance to BS 476 Part 3:2004 EXT.F.AC. This claim should only be used on Titan Shield literature after confirmation that the approval/test evidence applies to the Titan Shield X-Armour supplied formulation and branding.

TECHNICAL NOTE

This document has been prepared from the supplied manufacturer technical data for the underlying coating. Product-specific certification, warranty wording and any Titan Shield-branded fire-performance claim should be confirmed with the manufacturer before final publication.