



Protecting The Built Environment

FCO FIRE RETARDANT TREATMENT FOR TIMBER

PRODUCT DESCRIPTION

ACS FCO is a new generation, clear, waterborne, surface applied, fire retardant impregnation liquid for protecting timber and timber related substrates. The product is non-hygroscopic and is suitable for both interior and exterior use. ACS FCO has also been tested in accordance with EN13501 Parts EN13823: 2002 (SBI) and EN11925-2: 2002: Ignitability Test on softwoods, hardwoods, particleboard and others, achieving a rating of B/S1/d0 (equivalent to Class 0&1 to UK Building Regulations).

USES

To protect timber and timber related materials such as, softwood, hardwood, hardboard, chipboard and MDF (both fire rated and non-fire rated).

ACS FCO can be used on a wide variety of structures and surfaces including:

Floors, structural timbers, timber framing, panelling, fascias, decking, soffit board.

Ideal for use on:

Fencing, sheds, summerhouses, scaffold boards, stables and cladding (both interior and exterior).

COMPOSITION

An aqueous reaction product of metal complexes

TECHNICAL SPECIFICATION

Colour:	Clear/straw coloured
Approximate Drying Times @ 20°C and 15%rh	
Touch:	1 hour (*)
Overcoat:	1 hour (*)
Full Dry:	24 hours(*)
Shelf-Life:	36 months in unopened containers
Clean-up:	Water
Application Rate:	300-350ml/m ² (2.8-3.3m ² /litre)
Specific Gravity:	1.0 – 1.2g/ml

(*) Dependant on substrate adsorption rates, humidity, ventilation and temperature

PREPARATION (BARE TIMBER)

Ensure all surfaces are clean, dry and free of oil, grease, wax and organic growth, such as mosses, lichens, fungi and moulds. Remove any nibs, bark or splinters, make good any defects and fill knotholes with a suitable intumescent stopping (not Brummer) or timber plugs. Glossy surfaces of prepared timber should be lightly abraded with a fine grit Aluminium Oxide paper (+120 grit) or wire wool and swept clean or vacuumed.

PREPARATION (PAINTED OR STAINED SURFACES)

All existing decorative coatings and stains should be completely removed to expose the bare timber substrate.

In the case of exterior applications, surfaces should be protected from rain, fog, frost, snow and surface condensation during preparation, application and drying.

(Where paints or stains cannot be removed, see Product S92/FR Fire Retardant Coating).

If a stained finish is required, see ACS FCO Timber Stain.

APPLICATION

Apply by brush, deep-pile roller or spray. Apply an initial coat to the entire surface and allow to dry for approximately 1 hour. Follow with further coats allowing 1 hour between applications, to achieve the final loading of 300-350ml/m² (2.8-3.3m²/litre). Adsorption rates and drying times will vary according to timber type, density and drying conditions. If treating decorative joinery, apply to an inconspicuous area first to check for shade change and grain raise. Full fire retardant properties will develop after 7 days. Once completely dry, if required, the treated surface may be over-coated with decorative stains etc.

ACS FCO has a life-expectancy of between 5 and 10 years in exterior situations, dependant on the level of exposure. On interior surfaces, FCO should last for the life of the substrate.

LIMITATIONS OF USE

Do not apply to surfaces that are below 5°C, less than 2°C above the dewpoint or if the relative humidity exceeds 65%. Substrate moisture content should be below 25%. FCO may cause shade change on some species of timber, such as Sweet Chestnut and some hardwoods and we would recommend carrying out a trial application prior to commencing work, to ensure this lies within acceptable limits.

This product is suitable for use on plywood provided the upper, treated laminate has a thickness of 1mm or greater.

On thin veneers or surfaces of low porosity, excess product may remain on the surface. This can cause spoilage of any subsequent topcoats. If excess product is noticed, remove with a damp cloth and allow to dry thoroughly

Rinse any spilt material with water before the product dries.

PACKAGING

2.5lt, 5.0lt and 25.0lt re-sealable HDPE drums. Other pack sizes and 1,000.0lt IBC tank units are available subject to minimum order requirements and manual handling restrictions.

HEALTH & SAFETY

Refer to safety data sheet before use.

This information is given in good faith and is based on the best of current knowledge through use and experience. However all recommendations are given without warranty or guarantee as conditions of use lie outside our control. Customers are advised that all technical data is under constant review and changes in specification may occur without notice. Any person proposing to use this product should assess the suitability for application prior to commencing the work. Consult the appropriate safety data sheet prior to use.



ADVANCED CHEMICAL SPECIALTIES LIMITED
9, BOFORS PARK
ARTILLERY ROAD
YEOVIL
SOMERSET BA22 8YH
UK
☎ (+44) 0 1935-414012
☎ (+44) 0 1935-414022
🌐 www.acslimited.co.uk
✉ e-mail: info@acslimited.co.uk