

Protim® E407

Fungicidal and Insecticidal Wood Preservative.

PROTIM E407

DESCRIPTION

Protim E407 is a water-based, micro-emulsion, soluble concentrate (SL) wood preservative. Protim E407 is heavy metal and boron-free.

Protim E407 contains two fungicides and an insecticide. Protim E407 is for preventative treatment against wood rotting fungi, wood destroying insects (house longhorn beetle) and termites.

Protim E407 must be diluted before being applied using vacuum impregnation (Low Pressure Treatment).

Protim E407 is for use on softwood and hardwood in use class 1 (not including living areas) and 2.

PROPERTIES OF PROTIM E407

Colour:	Light Yellow
Odour:	Odourless
Relative Density	1.01
pH:	5 – 6

PACKAGING AND STORAGE

Supplied by bulk tanker and IBC. Store in tightly closed, original container in a dry, cool and well-ventilated place. The storage area floor should be leak-tight, jointless and not absorbent. Keep containers upright. Protect containers from damage. Keep at temperature not exceeding 30°C. Protect from frost. Store away from direct sunlight. The maximum shelf life of the product is 2 years.

HANDLING AND SAFETY PRECAUTIONS

The handling and safety precautions shown on the Protim E407 product label must be understood and followed. Use only as a wood preservative, and as described on the label. See the Safety Data Sheet for further information. Misuse may cause health problems and lead to environmental damage.

The (COSHH) Control of Substances Hazardous to Health Regulations 2002 may apply to the use of this product at work. Engineering control of operator must be used where reasonably practicable in addition to the following items of personal protective equipment. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

Wear protective clothing (double coverall), gloves, eye and face protection as well as chemical resistant footwear (EN 13832) during mixing and loading of the concentrated products. Wear gloves and protective clothing (double coverall) during the handling of the treated timber, contact with the treatment vessels and maintenance of the machinery. Do not handle broken

packages without protective equipment. Do not use in confined spaces without adequate ventilation and/or respirator. Do not eat, drink or smoke at work. Keep away from food, drink and animal feeding stuffs. Avoid prolonged contact of pets, especially cats, with treated surfaces. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid contact with skin and eyes. Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Avoid discharge to the aquatic environment. Do not reuse empty containers.

PROTIM E407 TREATING SOLUTION

DESCRIPTION

Protim E407 treating solution is a dilution of concentrate with water.

Indoor timber treatment in industrial sites.

RECOMMENDATIONS FOR USE

DILUTION

Mixing of the product from the bulk storage tank should use an automated dosing system. This requires minimal operator involvement and reduces exposure of the operator to the product. Information on the use of the system and the dilution range can be obtained from Koppers.

TIMBER

The timber to be preserved shall be clean and dry to allow penetration of the liquid, and not decayed by fungi or attacked by insects.

Wood-working (e.g. planing, profiling) should be carried out before treatment. At the time of treatment, the timber moisture content must be below the fibre saturation point (approximately 28% m/m) and should be at the moisture content appropriate for the end use of the preserved timber.

PRESERVATIVE APPLICATION

Protim E407 should be applied using a low-pressure vacuum impregnation plant in accordance with the Koppers Plant Operations Manual, to give an appropriate level of uptake and penetration into the wood. See application rates below:

Application rates	Vacuum impregnation (low Pressure):
Use Class 1	0.9 kg/m ³
Use Class 2	1.85 kg/m ³

All industrial application processes must be carried out within a contained area situated on impermeable hard standing with bunding to prevent run-off and a recovery system in place (e.g. sump).

When applying Protim E407 as an industrial penetrative treatment (vacuum impregnation), the user must ensure that treatments will only be applied to wood that is to be used within buildings or other structures (Use Class 1 and/or Use Class 2).

During impregnation, the solution temperature should not fall below +5 °C.

UPTAKE

Uptake varies according to wood species, the condition of the timber and the application method used. Contact Koppers for further information.

HANDLING PRECAUTIONS AND DRYING OF FRESHLY TREATED WOOD

If freshly treated timber is visibly wet with the preservative, then impervious clothing such as impervious gauntlets, impervious footwear and an impervious apron should be worn when handling the recently treated timber.

Wash splashes from eyes and skin immediately with water. Do not eat, drink or smoke whilst handling freshly treated timber. Wash hands and exposed skin before eating, drinking, smoking and after work. Protect cuts and abrasions by means of a waterproof dressing.

Freshly treated timber shall be stored after treatment under shelter or on impermeable hard standing, or both, to prevent direct losses to soil, sewer or water, and that any losses of the product shall be collected for reuse or disposal.

Treated timber will dry naturally, but to minimise the drying period, it is recommended that it is open piled in a well-ventilated position.

Timber which still has preservative liquid on its surfaces, or within a pack, must not be despatched.

PROTIM E407 PRESERVED WOOD

DESCRIPTION

Protim E407 preserved wood has been preserved by the correct application of Protim E407 wood preservative in an industrial, controlled treatment process using vacuum pressure impregnation (low pressure).

When treated to UC1 and UC2 specifications, treated timber should be stored in dry conditions for storage and transport. UC1 and UC2 treated timber, which is not wrapped or covered, should not be exposed to excessive or prolonged periods of rainfall or wetting before installation nor allowed to rest in standing water. Installed timber should be appropriately sealed and protected from weathering as soon as practically achievable and should not be exposed directly to excessive weathering during the construction phase. If wood is to be used in an interior application and becomes temporarily wetted during

construction, it should be allowed to dry before being covered or enclosed.

Protim E407 preserved wood is protected against wood rotting fungi, wood destroying insects (house longhorn beetle) and termites.

Treated wood should not be intended for uses involving contact with food, feed or livestock.

See the "User's Guide to Protim E407 Preserved Wood" for additional and important information.

COMPATIBILITY

Protim E407 treated wood and thoroughly dried shows no different corrosion behaviour towards iron, steel and glass when compared to untreated wood.

If you desire to apply a paint, stain, clear water repellent or other finish to your preservative treated wood, we recommend following the manufacturer's instructions and label of the finishing product. Before you start, we recommend that you apply the finishing product to a small test area before finishing the entire project to ensure that it provides the intended result, before proceeding.

DISPOSAL

Application solutions must be collected and reused or disposed of as hazardous waste. They must not be released to soil, ground- and surface water or any kind of sewer.

Dispose of surplus chemical, contaminated materials (including sawdust) and the empty container safely using a method approved by the waste disposal authority. This material and its container must be disposed of in a safe way. Preserved timbers which are no longer usable such as cut ends, broken boards, sawdust, or treated timber material taken out of service, may be disposed of in accordance with national and local regulations. For up to date information please contact the Technical Services Department.

EUROPEAN WASTE CODES

Product as supplied: 03 02 05* Other wood preservatives containing dangerous chemicals.

Used containers: 15 01 10* packaging containing residues of or contaminated by dangerous substances.

If mixed with other wastes, the waste codes quoted may not be applicable.

EWC codes are to be used as a guide only. For more information, please refer to the "Commission notice on technical guidance on the classification of waste (2018/C 124/01)" of the European Directive 2008/98/EC on waste.

ADDITIONAL INFORMATION

Protim E407 contains propiconazole, tebuconazole and permethrin. Use biocides safely. Always read the label.

Protim E407 treated wood products are produced by independently owned and operated wood preserving facilities.

Koppers Performance Chemicals provides a range of products and technologies for the treatment, protection

and enhancement of timber. Information and advice is available on all aspects of our products from the Technical Services Department.

For more information visit;

www.kopperspc.eu

Email: kpc@koppers.eu

Telephone: +44 (0)1628 486644

Emergency: +44 (0)1628 890907

Protim E407 is currently authorised to be placed on the market in the UK under the EU Biocidal Product Regulations 528/2012 (EU BPR), for use as directed. The approval holder is Protim Limited.

BPR No. UK-2020-1259-1-0003

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Registered in England - 3037845 | Registered Office: Fieldhouse Lane, Marlow, Bucks SL7 1LS UK

Protim Limited T/A Koppers Performance Chemicals
Registered in Ireland – 471919. Registered Office: 13-18 City Quay, Dublin 2, D02 ED70, Ireland.
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