

**DESCRIPTION**

PENNDEX is a resin rich, water based, elastomeric, copolymer compound containing inert pigments. **PENNDEX** is a thick seamless cladding that is formed from a soft paste using a brush, roller or spray that can be easily applied to most substrates. Supplied as a single component it bonds to walls and roofs and withstands many years of heavy atmospheric pollution and climatic extremes.

PENNDEX is highly durable and will move with the substrate, fill and budge hairline cracks, and maintain a self-cleaning surface, providing a long lasting finish.

PENNDEX can be supplied in any colour desired, in a semi-matt finish. **PENNDEX** cures to a hard finish and is tough enough to be cleaned repeatedly with abrasive cleaners and steam. **PENNDEX** is highly resistant to most water based industrial chemicals.

PENNDEX can be applied with a high build since it has a semi-thixotropic consistency. **PENNDEX** is of great value in binding weak and crumbling walls and will protect them from further water penetration and damage. **PENNDEX** is used straight from the can as there are no catalysts or additives required.

APPLICATION DATA**SURFACE PREPARATION**

In general, all surfaces must be clean and free from dampness, contamination, loose deposits, flaking paint, rust, grease, oil, etc., and all surface defects repaired as described in a section below. Do not thin, read the instructions on all containers thoroughly.

UNPAINTED BRICK, CONCRETE, CEMENT, ASBESTOS, ETC.

Wire brush or scrape away all loose deposits and make good any surface defects. See note on uncured surfaces. Apply a coat of PENNSEALER over the whole area and allow to dry. **PENNDEX** may then be applied in two separate layers as described below.

UNPAINTED METAL SURFACES

Remove any rust from ferrous metals and clean thoroughly. If the surface is to be sandblasted, clean to a white blast. If metal cannot be cleaned to a white blast, apply 2 coats of metal primer. For all non-ferrous metals, an application of water based metal primer is necessary. In case of galvanized steel, a special primer is available.

FOR ALL OTHER SURFACES, CONSULT YOUR TECHNICAL DATA SHEET ON PRIMERS AND SUBSTRATES.

ASPHALT, BITUMEN AND PITCH COATED SURFACES

Apply a coat of bitumen primer, and allow to dry before applying **PENNDEX**, follow the instructions carefully on the primer tin, taking care not to overbrush.

PAINTED SURFACES

These should be well sanded before applying **PENNDEX** directly to the surface. The paint should be sound and well bonded to the substrate. If sanding is not possible, apply a coat of wood primer to a clean surface. Emulsion painted surfaces should be wire brushed if chalking and then given a coat of PENNSEALER. Allow to dry before proceeding with the **PENNDEX** treatment.

OVERCOATING PENNDEX

Clean the surface, then apply a single coat of PENNSEALER and allow to dry before coating with **PENNDEX**.

**WOODEN SURFACES**

Wood primer must be used on all wooden surfaces (sanding first will give the best results). For plywood, particle board, etc., **Consult the Technical Data Sheet on Primer and Substrates**. If wooden surface is damp, a special primer must be used.

CRACKS IN MASONRY, GAPS, ETC.

PENNDEX can be applied over any recognized filler. Repair any concrete with a product such as **SPEEDCRETE**. Allow any repairs to dry thoroughly. Owing to its pasty consistency, **PENNDEX** will bridge any hairline cracks. Cracks capable of movement must be taped in accordance with the Technical Data Sheet referring to cracks and joints.

UNCURED SURFACES

Uncured surfaces of cement, concrete, plaster, new concrete blocks etc. may be highly alkaline while damp. To avoid the pink or blue staining of the **PENNDEX**, do not coat until completely dry. Apply a coat of PENNSEALER before using **PENNDEX**. Remove any laitance (a dry powdery skin) or efflorescence with a wire brush before applying PENNSEALER.

METHOD OF APPLICATION**SPRAYING**

PENNDEX can be easily sprayed using most types of industrial equipment, though care should be taken to ensure proper coverage rate. **PENNDEX** has excellent adhesion, therefore, in the long term interest of the user, preparation of the surface is most important.

BRUSHING OR ROLLING

The correct way to apply **PENNDEX** is to lay on the first coat and finish by brushing in one direction only, the second layer is then laid on and finished in a similar manner at right angles to the first after it has dried. Rolling is carried out in a similar manner. Do not apply **PENNDEX** when the temperature is below 5°C. or in a damp or rainy environment. Bright, dry conditions are best, especially with a **DRYING** wind. Protect from frost as freezing may destroy uncured coatings or any material exposed in can. Do not brush or roll out like paint.

COVERAGE**ROOFS**

Every gallon of **PENNDEX** will give a total maximum coverage of 50 sq.ft., two layers must be applied and each must be laid on at a coverage of not more than 100 sq.ft. Primers and Sealers will cover between 200 and 300 sq.ft. per gallon.

WALLS

Every gallon of **PENNDEX** will give a total maximum coverage of 100 sq.ft., two layers may be applied each at a coverage of not more than 200 sq.ft. per gallon. Primers and Sealers will cover between 200 and 300 sq.ft. per gallon. **ROUGH OR UNEVEN SURFACES WILL REDUCE THE COVERAGE.**

DRYING TIME

Roofing applications will dry in about four hours under ideal conditions, while other applications such as walls etc., will dry in about two hours, but a total of 24 hours should elapse between the two layers.

CONTAINER SIZE

PENNDEX is available in 4 litre, 5 gallon and 45 gallon containers. Primers and Sealers are available in 4 litre and 5 gallon containers.



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| Sealing | Waterproofs, seals and protects from environmental conditions. |
| Steam Resistance | Excellent resistance to steam and humid atmospheres generally. |
| Chemical Resistance | Excellent resistance to exposure to marine environment and industrial atmospheric pollution. Good resistance to water based chemicals. |
| Solvent Resistance | Good resistance to aliphatic hydrocarbon solvents. Poor resistance to other solvents generally. |
| Spirit Resistance | Poor resistance to alcohols generally. |
| Weather Resistance (ASTM D 822) | Unaffected after 2,500 hours exposure to accelerated weathering. |
| Water Vapour Transmission (ASTM D 1653) | 9.00 perms |
| Colour Fastness (ASTM E 188) | Unaffected after 48 hours exposure. |
| Application | PENNDEx may be applied by brush, roller or spray as outlined in the Application Data. |
| Storage | Keep in a cool dry place. MUST NOT BE EXPOSED TO FROST DURING STORAGE. |
| Film Thickness | Variable at will. Minimum thickness of roofs (.32 inches) and on walls (0.016 inches). |
| Combustibility (CGSB 1-GP-71) | No afterglow when test flame was removed. |
| Heat/Cold Resistance | Resists temperatures up to 80°C. Withstands exposure to -40°C. NON-OXIDIZING Almost entirely unaffected by the highly destructive ultra-violet element of sunlight. |
| Toxicity | The cured film may be safely exposed to foodstuffs and drinking water. Does not contain lead. |

WARRANTY

PennKote Ltd. warrants its products against manufacturing and material defects. PennKote will, for a period of two years from the date of application, supply replacement material for product proven to be defective. This warranty is in lieu of any and all other warranties expressed or implied. Pennkote Ltd. and any Distributor or Retailer of this product accept no liability for incidental or consequential damage due to defective material or improper installation. The user shall determine the suitability of this product for intended use.