SOLAR-GUARD P558

One Component Liquid Applied Insulation and Waterproofing Membrane

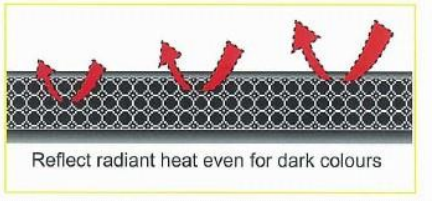
單組份液態應用式隔熱及防水塗膜

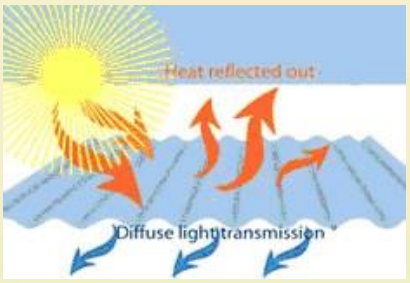
1.0 Description

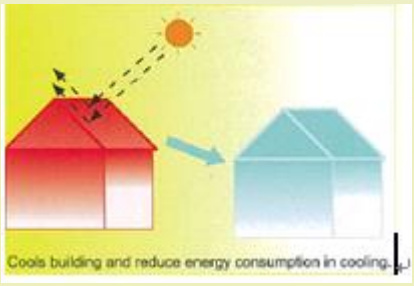
SOLAR-GUARD P558 is unique polyurethane based waterproof membrane and thermal barrier designed for use on roof and wall substrates to reduce heat absorption into buildings, offering potential energy savings to building owners. P558 is a cost effective heat shielding coating that uses advanced insulation technology to reduce the interior temperature of buildings. It provides a flexible seamless finish that can withstand long term UV exposure and varying climate.

2.0 Technical Data

Elongation at Break	BS 2782	＞260%Equipment
Tensile Strength	BS 2782	3.8MPa
Adhesion Strength		1.36N/mm^2
Crack Bridging		No crack within 2mm
Hardness Shore A		65
Water Penetration		No water penetration
UV Exposure 2000 hours		No disintegration, cracks, Blisters, peeling or swelling
Heat Reflectance		＞99%
Thermal Conductivity		0.09W/m^{0}K







3.0 Features & benefits

- Water based, free of solvents, non toxic and non flammable.
- Suitable for horizontal and vertical surfaces, when applied to specified thickness, the cured film forms a seamless weatherproof membrane for exposed areas such as roofs, walls, facades etc.
- Reflects solar heat and rejects it back to the atmosphere.
- Elastomeric and flexible.
- Resistant to salt and carbon attack.
- Durable and tough. Able to withstand general foot traffic.
- Reflects noise and sound back to the originating source.
- Cost effective method of reducing energy consumption in areas where usage of cooling system and air conditioning is high
-Compatible to all type of Polyurethane and Arcylic Coating

4.0 Typical Application

SOLAR-GUARD P558 can be applied to substrate (with respective primers) such as concrete, render, aluminum, steel, cement sheet, masonry, brick, wood, etc.

Waterproofing uses

- New and existing roofs
- Farming and animal sheds/storage
- Silos
- External floors
- Facades
- Refrigerated vehicles
- Shipping containers
- Warehouse and storage buildings
- Structures requiring an effective barrier to thermal conduction
- Portable buildings, cabins and workshops

MASTER PROOFER 香港萬寶建築化工 Integrity & Accuracy 誠信・精準

LABOND Range of products are designed, manufactured and supplied by MASTER PROOFER COMPANY LTD
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5.0 Application Details

Surface Preparation :

a) All surfaces should be free of grease, oil and dust. Very smooth surfaces should be roughened for better adhesion.

b) Loose rust, moss, lichens, crumbling cement, deteriorated fibre cement and degraded bituminous substances must be removed either mechanically or chemically. Depending on substrate type and condition, apply suitable Labond Primer : P940, P936, P976, P978 etc.

c) Surface faults such as blisters, holes and cracks should be cleaned out, then repaired with a flexible filler. Small hairline cracks can be painted with Solar-Guard P558 – brush in, allow in dry, then repeat until filled or at least sealed.

d) Adhesion to porous substrates can be improved by priming with Labond Primer. This is recommended because these surfaces can be very weak and consequently when a coating of Solar-Guard P558 is pulled up it actually tears away the surface to which it is bonded. Sealing with Labond Primer greatly reduces this type of potential failure.

e) Rusty metal should be cleaned by blasting or other means to suitable standard then primed with EpoxyPrime P936. Other metals should be suitably primed or treated, e.g. for new galvanising, degrease, etch or roughen surface before coating

Application :

a) Solar-Guard P558 can be applied direct to all common building substrates, i.e. concrete, render aluminium, steel, cement sheet, masonry, brick. Some priming may be required, depending on the substrate condition.

b) Apply two or more coats to obtain recommended total thickness by rush, roller, spread bar or airless spray gun. Ideal application temperature is between 10 – 30^0C and relatively humidity 30 – 80% in rapid drying conditions, mask large areas into smaller zones to help obtain an even application and appearance.

c) Rinse brushes, etc., frequently in water to prevent drying / clogging. Keep containers closed to minimise skin formation. In fast drying weather conditions, adhesion to unsealed absorbent or porous surfaces is significantly improved by Labond Primer.

6.0 Coverage

Flat Roof : (500micron to 2mm) dry film thickness i.e. 1.1 to 0.28 sq meter / liter

Pitched Roof : 370micron dry film thickness, i.e. 1.5 sq meter / liter

Wall Roof : 250micron dry film thickness, i.e. 2.2 sq meter / liter

Metal Flashing : 150micron dry film thickness, i.e. 3.6 sq meter / liter

7.0 Anti-Slipping Top Coat

Without affecting the insulation performance, an additional P558 coat could be applied with quartz sand (dia 0.3- 1mm) to form anti-slipping and abrasion resistance Top Coat Layer.

8.0 Health and Safety

Wash off body before Solar-Guard P558 dries to a tough, water insoluble film. If in eyes, rinse eyes immediately with water 5 – 10 minutes. If irritation persist, consult a doctor. Move to fresh air is nasal discomfort occurs.

9.0 Cleaning

Tools can be cleaned with water before the product set.

10.0 Packaging

20 liters/pail