

Solar Radiation Reflective UV-resistant Waterproofing Membrane



 **BASF**

The Chemical Company



Buildings with metal roof structures

- Leakage problem in rainy season
- High roof temperature in hot season
- Hot inside / high power consumption
- Short lifetime of roof materials

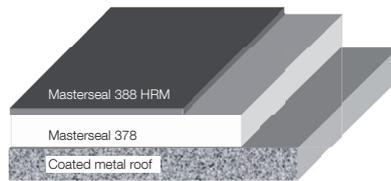
High maintenance cost

One Solution?

System Structure

Masterseal 378 – Body coat / White

Masterseal 388 HRM – Topcoat / Colored



Features and Benefits

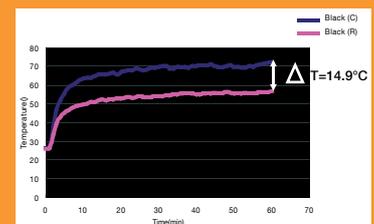
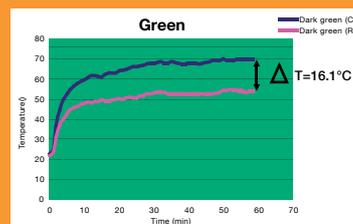
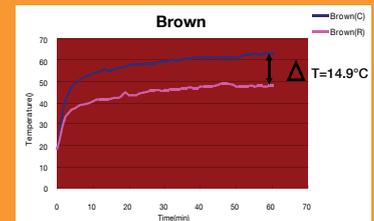
- High reflectance even in dark colours
- Solar reflectance reduces heat transmission by up to 15C
- Reduced heat transmission reduces internal temperatures at least 5 C (depends on actual heat load)
- Resistance to dirt pick up and weathering
- Suitable for renovation of metal roofs as well as concrete roofs
- Water based low VOC
- Sprayable
- Suitable for a wide range of Climatic conditions.

Waterproofing

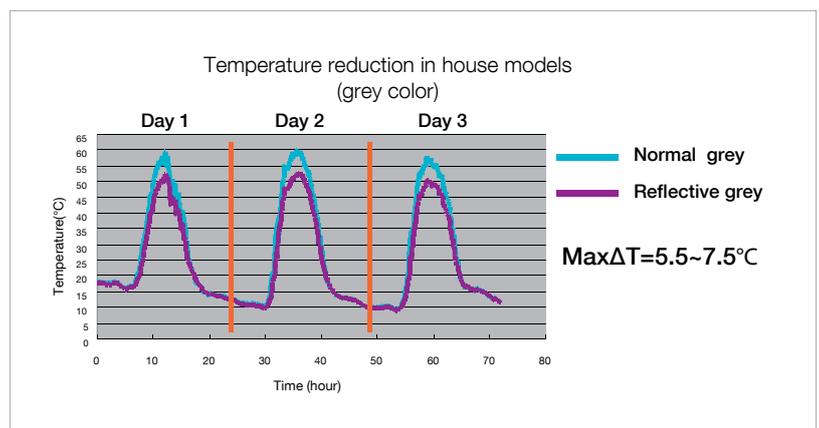
- Both the membrane and the topcoat are flexible (elongation of around 200%) and impervious.
- Adhesion (measured by peel strength to ASTM) to new and old metal roof sheets is significantly more than 350N/m the published acceptance limit
- Both the membrane and topcoat are UV stable



Temperature Reducing on Roof

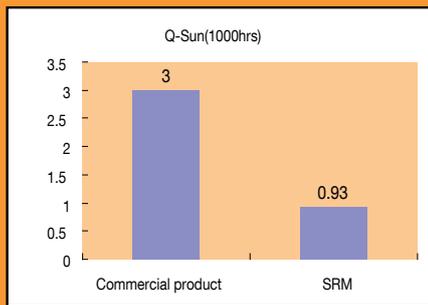


Temperature Reducing in House



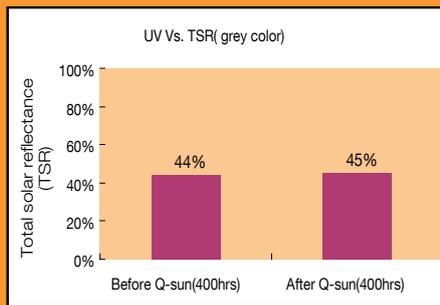
UV durability

UV color resistance



Excellent UV color retention performance

TSR after Q-Sun test



> Very slight change for TSR after Q-sun test

The effect of solar reflective membrane



Methods of Installation



1 The metal roof



2 The washing of the roof .



3 The completion of application over joints.



4 The spraying of Masterseal 378

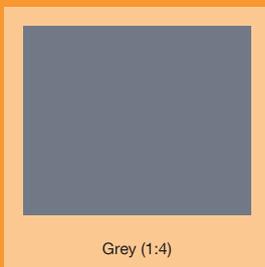


5 The spray of Masterseal 388HRM



6 The completion application of Masterseal 388HRM

Standard colors of SRM



Grey (1:4)

TSR 44%



Sunrise

TSR 49%



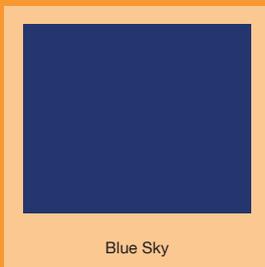
Impian Red

TSR 40%



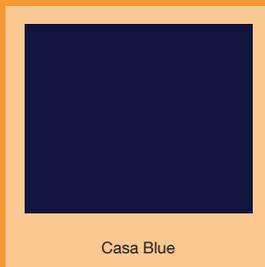
Royal green

TSR 27%



Blue Sky

TSR 27%



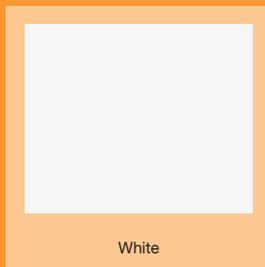
Casa Blue

TSR 32%



Manor Red

TSR 32%



White

TSR 84%

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Coniroof® - PU Based Roofing Systems
Emaco® - Concrete Repair Systems
Finestone® - Exterior Insulation and Finishing Systems (EIFS)
Glenium® - For Hyperplasticized Concrete
Masterflex® - Joint Sealants
Masterflow® - Precision and Structural Grouts
Masterpren® - Preformed Membrane Waterproofing Sheets
Masterseal® - Coatings and Waterproofing
Mastertop® - Decorative and Industrial Flooring Solutions
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Australia

+61 2 8811 4200

Bangladesh

+880 2 9348374

China

+86 21 2320 3869

Hong Kong

+852 2407 4291

India (Sri Lanka, Nepal)

+91 22 4157 7777

Indonesia

+62 21 526 2481

Japan

+81 3 3582 8815

Korea

+82 2 3707 3154

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New Zealand

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Philippines

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Taiwan

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Thailand

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