BASF
The Chemical Company

MasterSeal® M 388 (formerly known as Masterseal 388 HRM)

Solar radiation reflective waterproofing system top coat

DESCRIPTION

MasterSeal M 388 is designed for use as a topcoat in solar radiation reflective waterproofing membrane system. It has high solar reflectivity which results in dark colours having the same reflectance as white. This results in the surface of the roof being cooler and reduces the transmission of heat through the roofing material. Generally it is applied on body coat (MasterSeal M 378). It is water based with high performance dispersions to provide a flexible, elastomeric waterproofing membrane. The cured coating is tough, durable and seamless.

RECOMMENDED USES

- **MasterSeal M 388** is recommended as topcoat of solar radiation reflective waterproofing system, and applied on body coat of **MasterSeal M 378** to provide a colourful, solar reflective and UV resistant waterproofing system.
- **MasterSeal M 388** is not recommended for application in areas to be submerged in water or on floors subjected to traffic.

FEATURES AND BENEFITS

- High reflectance even in dark colours
- Solar reflectance reduced hat transmission by up to 15ºC.
- Reduced heat transmission reduced internal temperatures by at least 5ºC (depends on actual heat load)
- Resistant 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.

PROPERTIES

Weight solid	65±1%
Density	1.3±0.05kg/litre
Viscosity	10000 cps at 23ºC
Application temperature	5ºC to 40ºC
Surface dry	3h (23ºC and RH 50%)
Fully Care	7 days
Elongation	>100%
Max tensile strength	>1.5Mpa
UV resistance	Q-sun (1000hrs)

SPECIFICATION CLAUSE

Top coat of hat reflective membrane system for metal roof shall be **MasterSeal M 388**, applied at an average thickness of 100 microns DFT in one coat. The product shall be applied after body coat of Masterseal M 378 is dry enough to walk.

APPLICATION

Mixing

MasterSeal M 388 is ready for use. Stir to obtain a uniform colour before use.

Application

Step 1 - Spraying of top coat can be made once the MasterSeal M 378 can be walked on.

Step 2 - Apply **MasterSeal M 388** by using airless spray can achieve up to 200µm wet film thickness in one layer with consumption of about 0.26kg/m^3.

Step 3 – Surface drying time of **MasterSeal M 388** is about 2 - 3hr at 25 ºC.

Note: **MasterSeal M 388** is not resistant to rain until the film is toyally dried. The product should not be applied in rain. Rain should be avoided in 12 hours before and after topcoat application.

Application temperature

Environmental temperature 5ºC - 35 ºC

Substrate temperature should be around 5ºC to 50ºC.

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Dilution

MasterSeal M 388 could be diluted with 10-15% water to achieve smoother surface.

Curing

MasterSeal M 388 is self-curing. Full curing time is 7 days.

Equipment

Airless spraying machine

Cleaning

Clean tools and equipment with water before **MasterSeal M 388** dries.

ESTIMATING DATA

Generally, recommended rate of application for **MasterSeal M 388** is 0.26kg/m^3. Each pack of 20kg is sufficient for an area of 70m^2 to achieve the recommended final dry file thickness of 100 µm.

PACKAGING

MasterSeal M 388 is supplied in 20kg containers.

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 12 months when stored as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Material Safety Data Sheet (MSDS) from our office or our website.

BASF Construction Chemicals offices in ASEAN

Singapore	Malaysia	Indonesia	Thailand	Vietnam	Philippines	Hong Kong
T :+65-6861-6766	T :+60-3-5628-3888	T: +62-21-2988-6000	T :+66-2769-8564	T :+84-650-3743-100	T : +63-2-811-8000	T : +852-2408-4400
F:+65-6861-3186	F :+60-3-5628-3776	F: +62-21-2988-5935	F :+66-2769-8584	F:+84-650-3743-200	F : +63-2-838-1025	F : +852-2408-4401

Website : www.master-builders-solutions.asia-pacific.basf.com