

MasterSeal® 388 HRM

Solar radiation reflective waterproofing system top coat

DESCRIPTION

Masterseal 388 HRM is designed for use as a top coat 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 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 FOR

- **Masterseal 388 HRM** is recommended as topcoat of solar radiation reflective waterproofing system, and applied on body coat of **Masterseal 378** to provide a colourful, solar reflective and UV resistant waterproofing system
- **Masterseal 388 HRM** 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 reduces heat transmission by up to 15 °C
- Reduced heat transmission reduces internal temperatures by at least 5 °C (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.

TECHNICAL DATA

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

SPECIFICATION CLAUSE

Topcoat of Heat reflective membrane (HRM) system for metal roof shall be **Masterseal 388 HRM**, applied at an average thickness of 100 microns DFT in one coat. The product shall be applied after body coat of

Masterseal 378 is dry enough to walk.

APPLICATION

(A) MIXING

Masterseal 388 HRM is ready for use. Stir to obtain a uniform colour before use.

(B) APPLICATION

Step 1. Spraying of top coat can be made once the **Masterseal 378** can be walked on.

Step 2. Apply **Masterseal 388 HRM** by using airless spray can achieve up to 200µm wet film thickness in one layer with consumption of about 0.26kg/m².

Step 3. Surface drying time of **Masterseal 388 HRM** is about 2-3h at 25 °C .

Note: Masterseal 388 HRM is not resistant to rain until the film is totally 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 5°C-35 °C.
Substrate temperature should be around 5°C to 50°C.

(C) DILUTION

Masterseal 388 HRM could be diluted with 10-15% water to achieve smoother surface.

(D) CURING

Masterseal 388 HRM is self-curing. Full curing time is 7 days.

(E) EQUIPMENT

Airless spraying machine

(F) CLEANING

Clean tools and equipment with water before **Masterseal 388 HRM** dries.

ESTIMATING DATA

Generally, recommended rate of application for **Masterseal 388 HRM** is 0.26 kg/ m². Each pack of 20kg is sufficient for an area of 70 m² to achieve the recommended final dry film thickness of 100µm.

PACKAGE

Masterseal 388 HRM is supplied in 20kg containers

SHELF LIFE

Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 12

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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

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek

immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand.

Note

All BASF Technical Data Sheets are updated on Regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact your local **BASF** representative.

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