

# DAMP

MC Damp Coating is a waterborne and elastic sound damping visco-elastic polymers, specifically developed to reduce mechanical vibration and reverberation on structures. Successfully used in the marine industry to reduce noise from engine rooms, splash zone, hull, water and gas tanks, over-structures.



## DESCRIPTION

### MC DAMP Coating features:

- Vibration reduction
- Noise Reduction
- Weight reduction
- Sprayable
- Bacterial growth prevention
- Thermal insulation
- Anti-condensation
- Anti-corrosion
- Resistant to water
- Waterborne
- Light Weight
- Moisture Control
- VOC free
- Fire retardant / Non Combustible

All these features are combined with a significant reduction in costs and application time, as it is sprayable, dries fast and no sanding, primer or topcoats are necessary

### TECHNOLOGICALLY SUPERIOR PRODUCT

Can be applied with an airless pump on any kind of surface

MC DAMP has very good adhesive qualities and it is water resistant when hardened.

MC DAMP contains anticorrosive and protection against the condensation.

### ANTI-CONDENSATION AND THERMAL CAPACITY

MC DAMP has great thermal capacity because of its low conductivity. For this reason, this unique product offers the double function of sound damping and thermal insulation in one application.

This means we can treat all surfaces with large condensation problems.

**Thermal conductivity 0,156 W/m.K**

### Substrate / Surface Preparation

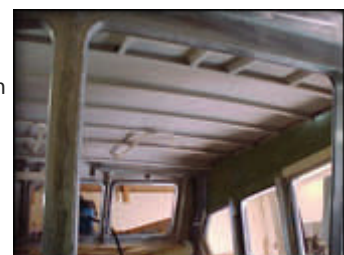
Clean surfaces with a light vinegar wash prior to application of MC\_DAMP and remove corrosion. The surface should be free of further foreign matters like dirt, oil etc. When unalloyed aluminium or zinc etc. are involved, the surface needs a *primer before* to do the application ensuring good product adhesion.

It is extremely important that the substrate is completely dry.



### MIXING

Use a mixing paddle of 1/2", to activate the product for about 5 minutes, then pour into the pail where pumps is connect with sprayer/gun. NEVER ADD WATER. Tolerance of 3% max.



# sound damping coating

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## Technical DATA

description	solid and smooth surface after dry time
colour	beige (tinting is possible)
density	990±2% kg/m <sup>3</sup>
wet weight	0,990 kg/lt.
dry weight	0,495 kg/m <sup>2</sup> per 0.5 mm
coverege	0,675 m <sup>2</sup> /lt. at 1.00 mm
volume solids	64% - 68 %
base	water
abrasion resistance	hight
application temperatures	16°C - 30°C
voc	free
primer	not requestd
dry time	<100°C
cure time	14/72 hours
limit	100°C
flash point	> 100°C
packaging (lt.)	1 - 5 - 20 - 200 - 1000
storage temperature	+2°C - 30°C
life time wet	12 months

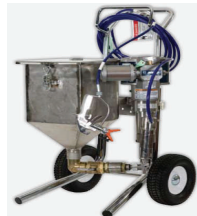
## APPLICATION EQUIPMENT

Tools which are used for application:

- Airless spray type Graco King (nozzle 0,025 – 0,045)
  - Brush or roller (very small part)
- During application, the thickness should be measured with a wet mil gauge:

2mm for each application

4 mm for second application (if required)



## Coverage suggested :

In the calculation below we suggest the consumption needed to damp the surface made in different material and in different thickness.

Being the density near to 1 the weight also indicates the thickness of the coating.

Example:

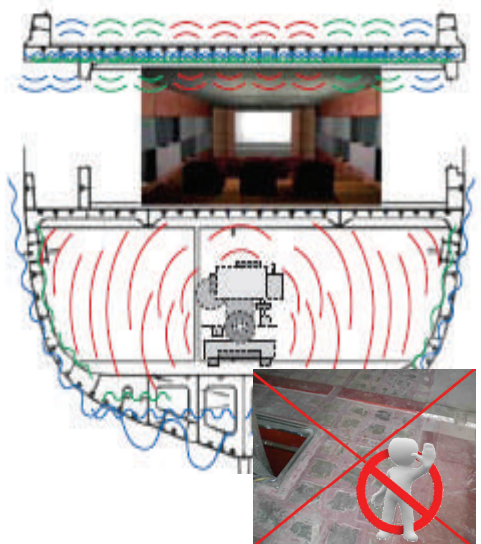
Application of the MC DAMP coating on a surface of 6 mm in aluminium.

Aluminium: 6 mm

Consumption: 3,75 litre/m<sup>2</sup> — (3,75 mm/m<sup>2</sup> WFT - wet)

Dry Film: 2,4 kg/m<sup>2</sup> — (2,4 mm/m<sup>2</sup> DFT - dry)

	thickness (mm)	Dry film (Kg/m <sup>2</sup> )	Consumption (l/m <sup>2</sup> )
<b>Steel</b>	1	1,5	2,35
	2	2,0	3,12
	4	3,0	4,69
	6	4,0	6,25
	8	5,0	7,82
	10	6,0	9,38
<b>Aluminium</b>	1	1,4	2,18
	2	1,6	2,5
	3	1,9	2,97
	4	2,1	3,28
	6	2,4	3,75
	8	2,7	4,22
<b>FRP</b>	1	1,4	2,18
	2	1,6	2,5
	3	1,9	2,97
	4	2,1	3,28
	6	2,4	3,75



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ADVANCED COATING SOLUTIONS

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