



# Resonac

Anti-Drumming / Vibration Damping Compound



**dB Acoustics Pte Ltd**  
delivering Best sustainable acoustic solutions



# About Resonac

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Resonac is a vibration damping compound that effectively suppresses vibration-generated noise such as rain-impact noise.

Untreated awnings, claddings and metal roofs can become very noisy when it rains.

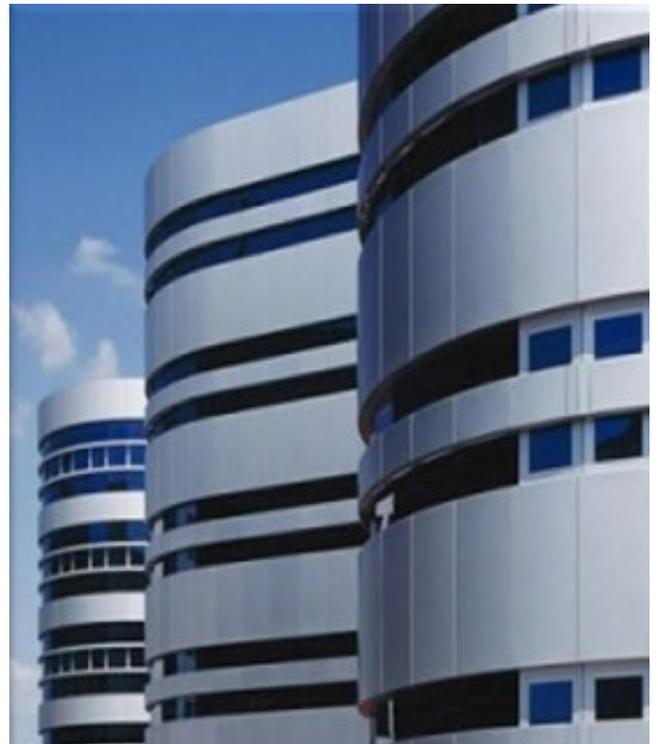
Applying a layer of Resonac on these metal surfaces will help to absorb the vibrational energy – and reduce noise significantly.

# Resonac Applications

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Resonac can be used for many applications such as:

- Awnings
- Claddings
- Metal Roofs
- Ship Hulls
- Metal Floor Decks



# Specifications

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**Colour:** Off-White (Type M) , Dark Grey (Type D)

**Weight Per Litre:** 1.5 - 1.6kg

**Solid Content by Weight:** 62%

**Recommended Operating Temp:** 4°C ~ 45°C

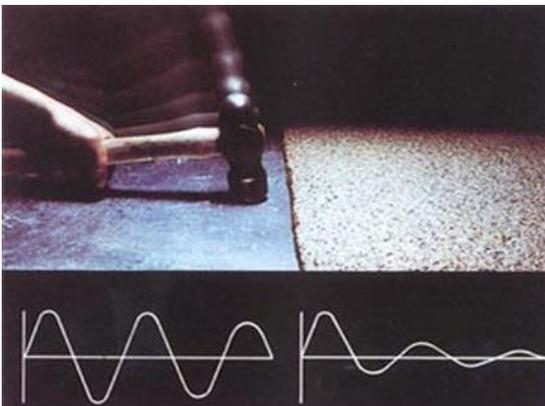
**Flash Point:** None, Water based

\*Weight for 0.8mm coating is approximately 1.2kg/m<sup>2</sup>

**Fire Spread:** Class 1 to BS 476: Part 7: 1997 on non-combustible surfaces.

**Fire Propagation:** Class 0 to BS 476: Part 6: 1989 on aluminium sheet.

Vibration Damping Between 70 & 80 Hz	Description of Damping Coating	Vibration Decay Rate (dB/Sec)
Steel (1mm)	Uncoated plate	3
	1.5mm (dry) damping coating	115
	3mm (dry) damping coating	224
Aluminium (3mm)	Uncoated plate	11
	1.5mm (dry) damping coating	104
	3mm (dry) damping coating	555



Resonac owes its excellent vibration damping qualities to the body particles (inorganic material fillers).

# Application Methods

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## Spray-On



### Air Spray Settings:

Nozzle size  $\geq$  6mm,  
Air pressure  $\geq$  60psi

**Spray Gun:** 7E2

**Pressure Tank:**

5 US Gallon pot with plate  
bottom outlet

**Hose:**

Part No. 71-283

**Hose connector:**

Part No. 72-1334

### Body Deadener Gun:

**Gun Nozzle:**  $\geq$  6mm

**Air Pressure:**  $\geq$  80psi

### Airless Spray:

GRACO 55 = 1 ratio pump  
with single post ram,  
20ltr followerplate,  
 $\frac{3}{8}$ " H/p hose assembly,  
 $\frac{1}{4}$ " whip hose with  
swivel and GRACO "Black  
Gum"& spray tip

## Trowel



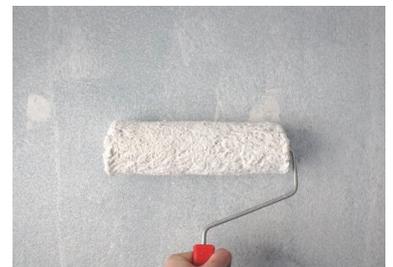
Normal Trowel is suitable for  
Trowel-on application

## Brush-On



Normal Brush is suitable for  
Brush-on application

## Roll-On



Normal Roller is suitable for  
Roll-on application

# Application Methods

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## Preparation before application:

Remove any dust, dirt, oil, grease, rust, mould-releasing agent, etc. from the surface.

Maximum 3mm wet film per coat.

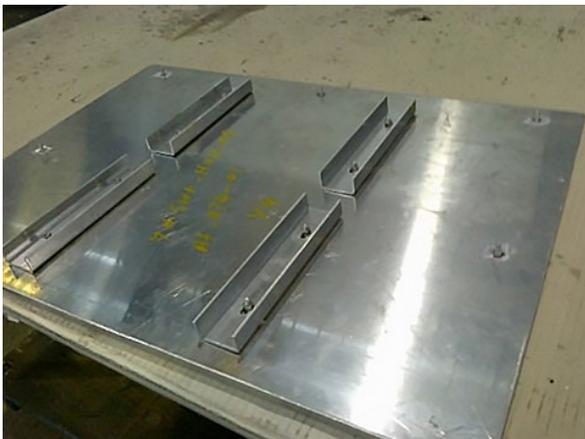
Allow to dry before next application.

Drying time at 20°C and 3mm thickness is 24 hours approximately.

Accelerate by heating to a maximum of 70°C.

Cover a minimum @ 80% of total area.

Small cracks may develop upon drying, however, these will not affect the performance.



Bare Metal panel before Resonac



Bare Metal panel after Resonac

\* Recommended effective coating thickness for sheet metal roof is 0.8mm thick.

# Knolls Capella Hotel @ Sentosa





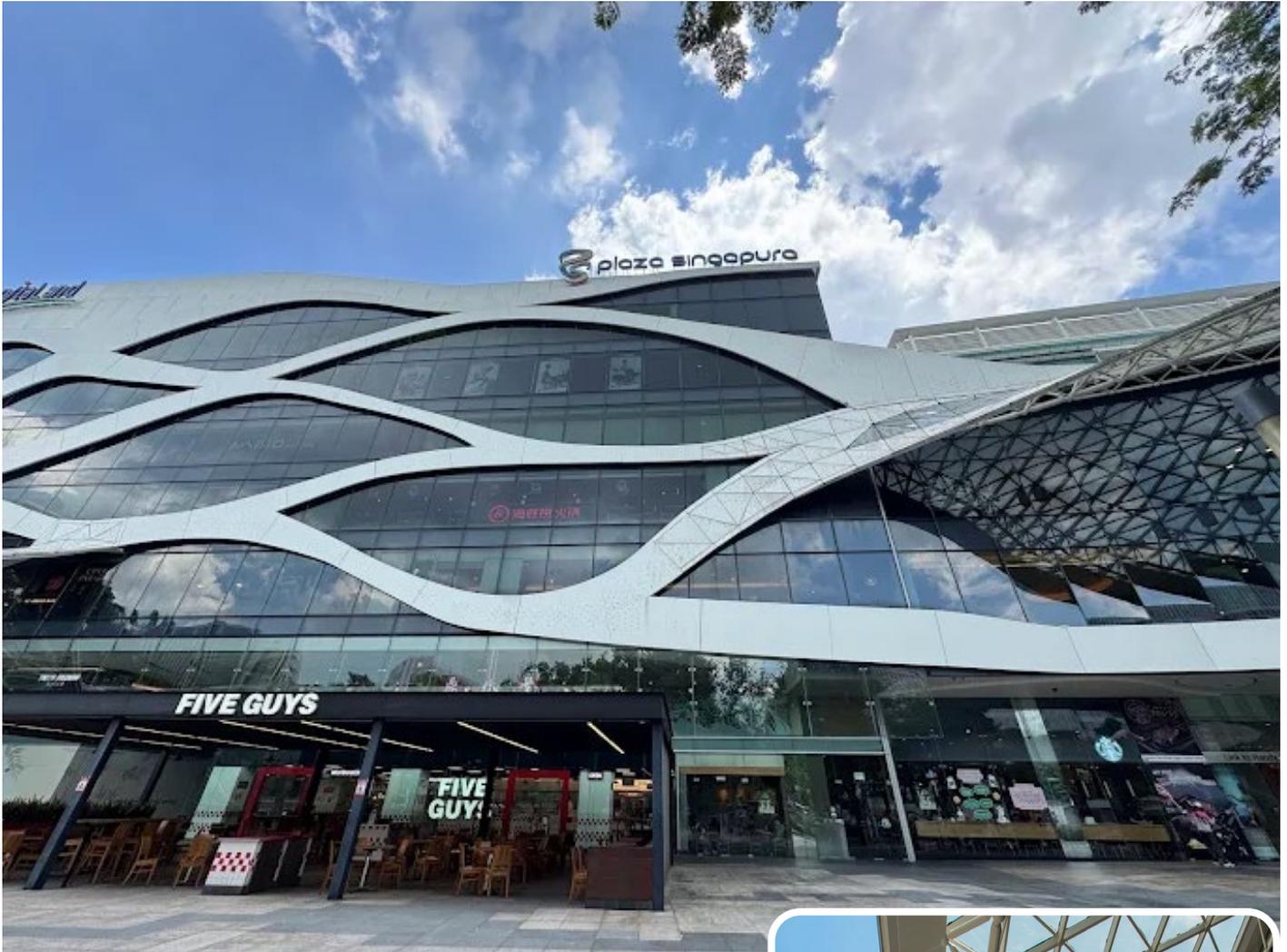
Underside after application

We were involved in the construction of the Knolls Capella Hotel at Sentosa, where we provided Resonac to be applied on the facades with a special curved design.

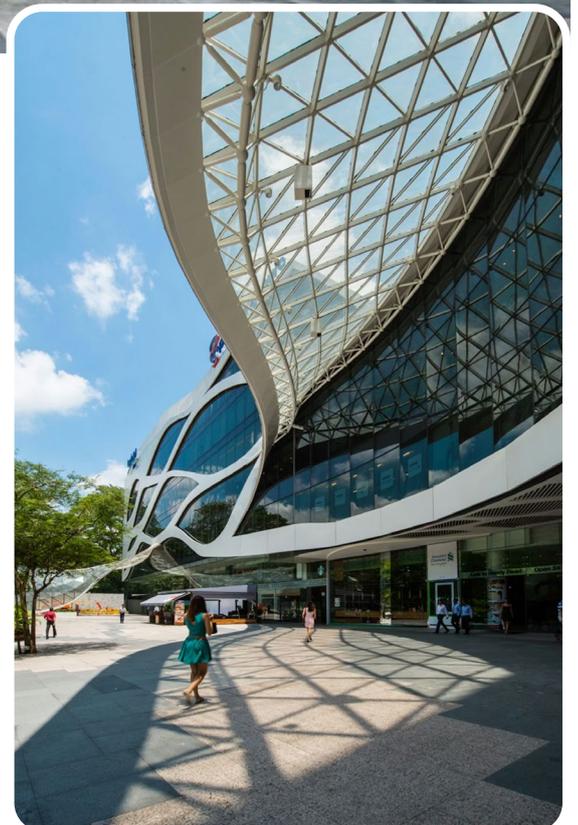


# Plaza Singapura





We were involved in the construction on Plaza Singapura's facades, where we provided Resonac to be applied to aid in the sound damping.





# **Khoo Teck Puat Hospital**



We were involved in the construction of Khoo Teck Puat Hospital's sun shade awning.

# Newtown Secondary School





We were tasked with the application of Resonac on the shelter roofs at NewTown Secondary School.

