



CARACTERISTICS

CROSONE 901 is an aqueous dispersion of a modified, solvent free, easy to apply and can be used both indoor and outdoor areas. It is designed to reduce noise generated by the resonant vibration caused by continuous impulsive excitation of the substrate on which it is applied.

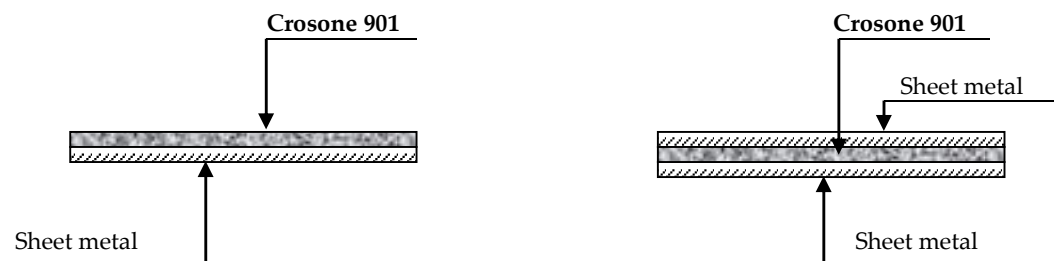
CROSONE 901 has been designed to absorb and reduce resonance and vibration resulting from the excitation of a natural frequency of a system (for example, striking a tuning fork). Applications in the automobile industry, continued energy helps produce a forced vibration. Without any means to dissipate the energy of interaction, noise and vibration will be generated continuously.

That's where the **CROSONE 901** acts. Viscoelastic properties absorb the noise produced by converting the pressure energy into heat cut invaluable. Against higher the pressure is transferred to the **CROSONE 901**, the greater the energy dissipated. Incredibly, this reduces to 30 dB the sound is generated.

CROSONE 901 can be applied over smooth and rough surfaces by brush, roller or spray. Once cured, it acquires a monolithic final texture.

APPLICATIONS

CROSONE 901 is designed and formulated to be used in areas which require a continuous membrane to reduce noise and absorb vibrations from the machinery, steel, aluminium and other nonferrous materials. It has extensive application in the floors and walls of railway wagons, metro and tram, air conditioning, metal edges and other surfaces. It is ideal for coating shields from rain and metals roofs.



Applications examples



Metallic element treated treated with Crosone 901

SPECIFICATIONS

| | |
|----------------------|-------------------------------------|
| Nature | Elastomeric. |
| Colour | Grey. |
| Wet density | 1.700 kg/l. |
| Dry density | 2,04 kg/l. |
| Reaction to fire | Class Bs2 d0. |
| Open time | 20 mm. |
| Thermal conductivity | 6,2 Cal./h cm ² x °C/cm. |
| Working temperature | From – 10° C á 70° C. |
| Delivery on | 25 kg. Plastic pail. |
| Palet | 36 pails (900 kg). |

PROPERTIES

CROSONE 901 has the following advantages:

- Easy to apply.
- Strong reducing of vibrations.
- Contains no asphalt or solvent.
- It no produces odors
- Not flammable.
- Great grip.

Measurement of two aluminium plates of thickness 2 mm and 1 x 0,8 m in area. Treated with 0,5 kg of **CROSONE 901** for one side. Both measurements were taken using an impact hammer and an accelerometer. The plates freely suspended.

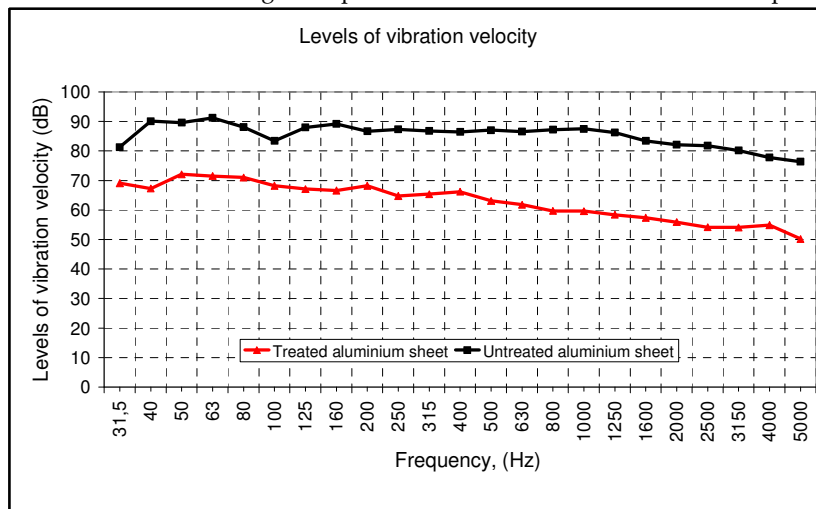


Figure 1.- Shows the speed levels of vibration in the two plates with a unit of pressure in third octave frequency. Black line, untreated plate. Red treated.

From these results indicate that vibration treatment has been a vibration reduction of more than 20 dB at almost all frequencies. The corresponding reduction of noise would be identical to this difference. It is also possible from these results, determine the damping loss factor of the plates. This reduction is now more significant than the noise reduction. As untreated panels usually have a much higher damping when installed on site, that they are suspended as in this case.

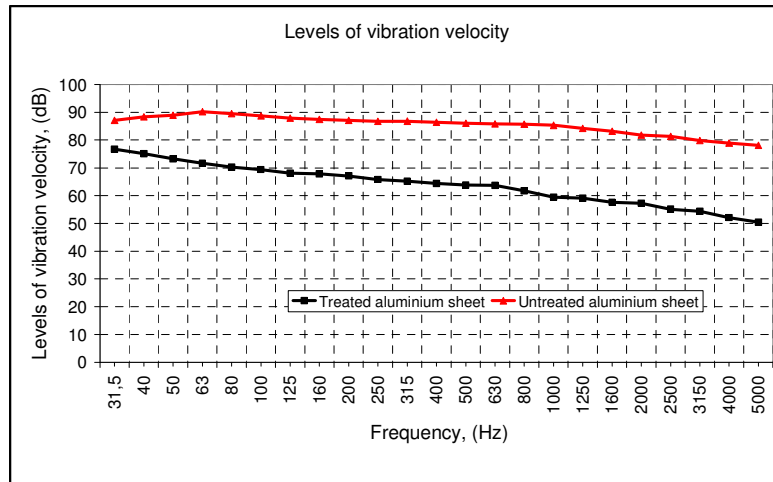


Figure 2. - Shows the same results in octave bands. Black line, treated metal. Red untreated metal. The same results as above, but in octave bands.



Metallic element treated with Crosone 901

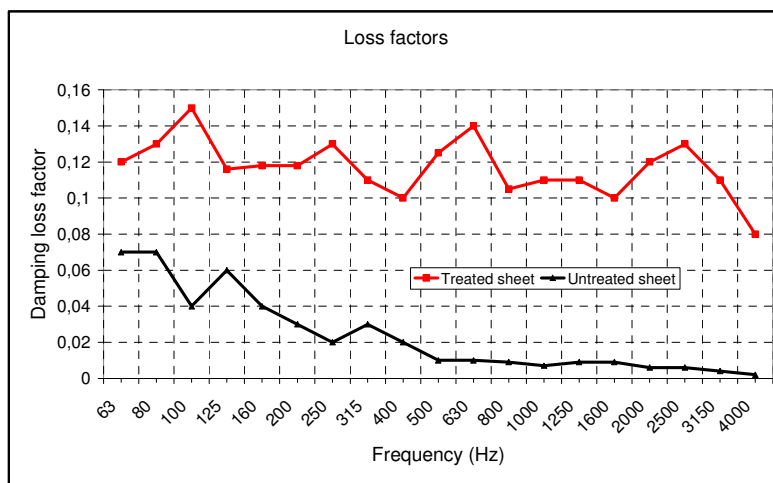
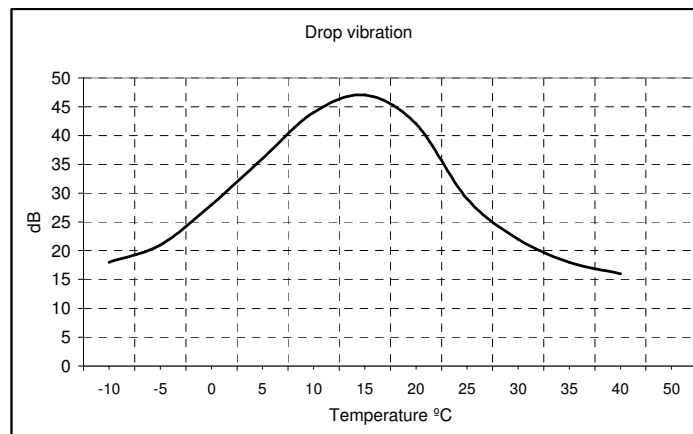


Figure 3.- Loss factors



The reduction rate of vibration at 17 °C is 48,3 dB per second with a coating of 2,5 kg/m² dry on a metal sheet 1 mm thickness.



HOW TO USE

CROSONE 901 with roller or airless spray machine, type Disnamair Speedflo. When by spraying, the finished product is strong, flexible, and decorative, for slightly rough and grayish colour. If the final product is to be outdoors o required make it look more decorative, can be repainted with enamel or epoxy paint or polyurethane type.

Surface preparation.- The surface where to apply **CROSONE 901** must be clean of grease, oil, dirt, excessive moisture and dry.

Mix. - **CROSONE 901** is a very stable product and, therefore does not require shaking prior to implementation is to be fluidized, it added a small amount of water and stir slowly until the complete homogenization of the same.

Opacity and thickness. - When applied 1 kg / m² **Crosone 901**, the thickness is achieved is about 1 mm. The amount is advisable to apply at least one layer of a thickness or half the thickness and the metal to be coated in order to achieve greater effectiveness in attenuating noise. If required to apply more than 1 mm thickness, apply by layers, ensuring that the previous coating is completely dry to the touch.

Drying Time.- A layer of a thickness of 1 mm is dry to the touch in one hour and completely dry and hard surface between 24 and 36 hours. This drying time is through normal weather conditions as to moisture. If the temperature is cooler and higher humidity will require more curing time. Drying time can be accelerated by heat. The maximum recommended temperature is 65 ° C.

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