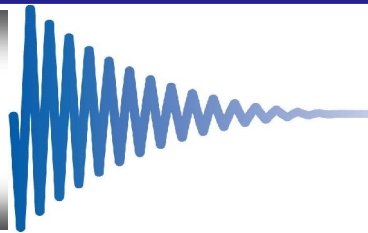


# DAMPASTE



## DAMPASTE V.02 PS

### Selection & Specification Data

<b>Product Name</b>	DAMPASTE Visco-Elastic Sound Damping Paste
<b>Product Number</b>	DAMPASTE V.02 PS
<b>Generic Type</b>	Polysulfide Resin Vibration Damping Insulation Paste & Glue
<b>Description</b>	Dampaste V.02 is sound damping paste and glue that kills structureborne noises on board ships and other vessels that runs with mechanical vibration on. Dampaste has an excellent quality of two component material inside.
<b>Features</b>	<ul style="list-style-type: none"><li>◆ Outstanding Damping Loss</li><li>◆ DIN 75200 - MVSS 302</li><li>◆ Outstanding Transmission Loss</li><li>◆ Perfect Adherence</li><li>◆ Highest Vibration Resonance Elimination and best sandwich type vibration killer</li><li>◆ Easy application characteristics with ..... cure time</li><li>◆ Applies to most any surface easily</li><li>◆ Oil, diesel, splash water resistance</li><li>◆ Longlasting stability</li></ul>
<b>Gloss</b>	Mat
<b>Color</b>	Component A: Beige, Component B: Black When mixed damping paste becomes Dark Black without any stripes on it.
<b>Priming</b>	Self priming over non-ferrous materials (stainless steel & aluminum). Primers are required for carbon steel substrates.
<b>Sandwich System</b>	Steel or aluminium sheet shall be glued on top. (1.75 kg/liter)
<b>Weight film to area</b>	1.5 kg/m <sup>2</sup> @1.0mm film thickness(theoretical)
<b>Volume Solids Content</b>	73-75%
<b>Final Cure</b>	minimum 41hrs
<b>Surface Drying</b>	max 120mins
<b>Practical Coverage</b>	1.5 kg/m <sup>2</sup> @1.0mm film thickness(theoretical)
<b>VOC Content</b>	Low
<b>Limitations</b>	Keep product in conditions of room temperature prior to application to gain best performance Please avoid eye and skin touch if the product is still not dry

### Substrates & Surface Preparation

<b>Surface Prep</b>	Surface should be dry and free of foreign matter. Surface prep can be used to NACE 1-3 (SSPC SP 5-6) when applicable.
<b>Ferrous Surfaces</b>	Should be primed prior to application of Dampaste Since the damping paste working as a heavy layer of adhesive material on surface it is important to have a boundary and strong layer of protection to eliminate fall off of damping material and sheet.
<b>Non-ferrous Surfaces</b>	The paste can be easily applied directly to nonferrous surfaces. Surface should be cleaned and free of oil, dirt, or foreign matter.

### Application Equipment

Dampaste can be mixed manually prior to application. If large quantities needed a mixing apparatus may be used.

Prior to application please consult manufacturer or manufacturer's MSDS "A" Component of Dampaste mixed manually and priority then right before application Component "A" should be mixed hardly with Component "B" to full mixing.

Please use trowel or filling knife.

Further instructions on Application Equipment please consult manufacturer or local distributor.

### Application Conditions

<b>Surface Temps</b>	Surface temperatures for applications should be 1°C above.
<b>Applications</b>	<i>Optimum Temperature Range 10°-30°C.</i> Temperatures (surface or ambient - whichever is lower), lower or higher than this range effects the cure time. Temperature more than 50°C please consult Manufacturer or local distributor.
<b>Application Thickness</b>	Product can be applied in one coat.
<b>Forced Ventilation</b>	Forced ventilation should be used to help damping paste dry and hargon vertical surfaces. Air movement should be both in/out during curing process. Also forced ventilation needed for OSHA requirements. Please see MSDS for further protection

# DAMPASTE

## Damping Paste Technical Pro

Item	English Value (Metric Value)	Test Method
UV-A Exposure	Excellent 2000 hrs	ASTM D-5894
QUV	Excellent 2000 hrs	ASTM G-154
Cross Hatch Adhesion	100% 5 B	ASTM D-3359
Pull apart strength	> 0,7 N/mm <sup>2</sup>	ASTM D-4541
Cyclic Salt Fog	Excellent 2000 hrs	ASTM B-117
Flame Developed	hardly inflammable	DIN 75200 - MVSS 302
Elongation Rate	Above 35%	ASTM D-638

## Mixing & Thinning

- Mixing** By manually, hand or some other mixing equipment. Please use trowel or filling knife. Please consult manufacturer or local distributor in order to receive exact materials' photos for mixing. Mixing proportion 10:1 (Component A:Component B)
- Thinning** Thinning is never needed in for Dampaste!
- Pot Life** Approximately 45mins one due two component damping paste.

## Package, Handling & Storage

- Container** 5 kg pail
- Net Contents** 5Kg
- Flash Point (Setaflash)** None
- Storage** Product should be kept out of direct sunlight and stored in a climate controlled warehouse of 10°C to 25°C.
- Shelf Life** One year shelf life from manufacture date.
- Caution** Do not let product open. keep products in room conditions
- Solubility in Water** Insoluble

Ensure good ventilation/ suction at the workplace. Avoid with skin and eye contact

## Cleanup & Safety

- Cleanup** Equipment may be cleaned with thinner.
- Safety** Avoid contact with skin and eyes. Wear protective equipment. Rinse with running water and soap with skin. Remove contaminated clothes immediately.
- Ventilation** Recommended for constricted areas.
- Caution** This material is not for human consumption!
- Clothing & Safety** Safety clothing & gloves are needed in order to do application

## Curing Schedule

Temperature	Cure Time
10°C	60mins
20°C	30mins
30°C	20mins
Full Cure	min. 41 hrs

Higher temperature doesn't mean achieve damping paste to reach optimum dry time! Dry time may vary depending on other conditions such as wind or enclosed environments. The times are estimated dry times (@1.0mm). Lighter thickness will expedite dry times. Forced ventilation in confined areas will also expedite dry times

## Application Range of Dampaste V.02 PS

Its used as a sound damping single or sandwich system for structureborne noises. Dampaste is a coating where whole vibration issues needed to be eliminated or minimized.

The range of application regarding structureborne noises are below;

- \* Commercial Vessels (Tugboats, Chemical Tankers, Cargo Ships etc.)
- \* Yachts & Superyachts Building or Refit
- \* Rail Vehicles (Trains, Trams etc.)
- \* Metal Constructions
- \* Industrial Plants
- \* Car Manufacturing
- \* A/C Systems

## Constraint Layer Damping

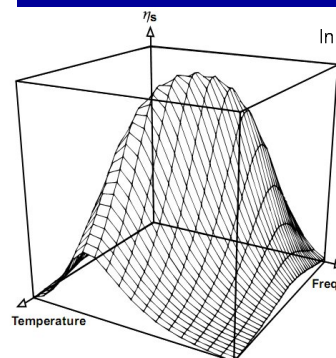


Figure 1: Graph of damping loss factor vs. temperature  
This figure is created by using computer techniques to model Dampaste system to determine the optimum thickness of Damping Paste.

In weight sensitive applications Dampaste as constraint layer damping (CLD) provides lighter perfect solutions. in comparison with other free layer or CLD materials. Compared to other damping materials Dampaste system provide to maintain high system loss factor greater than 0.1. This means of noise reduction 20dB or more. By using DAMPASTE in sandwich system, during the system resonated flexed by vibration our Dampaste material is forced into shape that shears adjacent material sections This paste material in system dissipates the vibration into low amount of frictional heat.

