



## TRIOTHERM 3500 Epoxy thermal-insulating material

- DESCRIPTION:** A two-pack epoxy thermal-insulating material.
- TYPE AND RECOMMENDED USE:** The material is intended for thermal insulation of pipelines, technological units and equipment to prevent heat leakage and / or for protection of personnel, as well as to protect steel and concrete constructions and elements of technological systems from the cryogenic strait. Can be used as an independent thermal insulation with soundproofing properties, and as part of anticorrosive coating systems and combined systems of constructive fire protection. The operating temperature range of the resulting coating is from minus 60°C to plus 150°C.
- PHYSICAL CONSTANTS:**
- Color:** From white to beige.
- Volume solids:** 100 %
- Coefficient of heat conductivity:** 0.04 W / m ·K.
- Film thicknesses:** Coating's thickness of the material depends of requirements for thermal insulation. (Contact your O3-Coatings representative for additional data).
- When applied by airless spraying, the maximum thickness of a wet film (WFT) per pass can reach 2000 µm, which corresponds to a dry film thickness (DFT) of 2000 µm. The recommended thickness of wet film (WFT) in one pass is 1500 µm, which corresponds to the dry film thickness (DFT) of 1500 µm.
- Drying times:**
- | Drying times TRIOTHERM 3500 - 1500 microns DFT |          |         |         |         |
|--|----------|---------|---------|---------|
| Substrate temperature                          | 5°C      | 10°C    | 20°C    | 30°C    |
| To recoat                                      | 12 hours | 8 hours | 6 hours | 4 hours |
- Drying times depend of film thickness. These figures are given as a guide only. Factors such as air movement and humidity must also be considered.
- SURFACE PREPARATION:** The material is applied to a pre-prepared and primed surface. The surface to be painted must be dry, clean and uniform with a minimum temperature of 3°C above the dew point. A typical surface preparation scheme includes cleaning, degreasing (if necessary), desalting (if necessary) and dedusting the primed surface.

# Technical Data Sheet



## APPLICATION DETAILS:

<b>Material preparation:</b>	<p>A two component material supplied in separate containers to be mixed prior to use. In cold conditions, it will help mixing and application if the material can be stored in a warm environment for at least 24 hours prior to use. A temperature between 15°C and 30°C is recommended.</p> <p>Before application mix Additive with Base and maintain stirring for 3 minutes.</p> <p>It is necessary to start application after immediately after mixing components.</p>
<b>Application method:</b>	Airless Spray / Molding.
<b>Thinner:</b>	Not recommended to use thinner.
<b>Nozzle size:</b>	.019" - .025"
<b>Operation pressure:</b>	(220-350) bar.
<b>Cleaning of tools:</b>	<p>Thinner TRIOSOLV 003 or xylene technical (thinner 646 may be used).</p> <p>Clean equipment immediately if stop spraying for more than 10 minutes.</p>
<b>Application conditions:</b>	<p>Should be applied at temperatures above 0°C;</p> <p>Relative humidity: 85% maximum;</p> <p>(In confined spaces provide adequate ventilation during application and drying).</p>
<b>STORAGE:</b>	<p>Base – 24 months from date of manufacture. Additive – 24 months from date of manufacture. Store in dry, shaded conditions at temperature between plus 5°C and plus 30°C in hermetic original package away from UV rays and other sources of heat.</p>
<b>RECOMMENDED SYSTEMS:</b>	
<b>Primer:</b>	TRIOCOR MASTIC 4500, TRIOCOR MASTIC 4500 (MIO) or other primers.
<b>Fire protection material:</b>	TRIOFLAME EP 8800, TRIOFLAME 8800.
<b>Topcoat:</b>	TRIOCOR FINISH 5500 or other topcoats, in accordance with fire safety certificates.
<b>PACKAGE:</b>	<p>Part A (Base) – 20L container;</p> <p>Part B (Additive) – 10L container.</p>
<b>HEALTH AND SAFETY:</b>	Refer to the Safety Data Sheet before use.