The LO/MIT-II products are silver-colored, non-thickness dependent, low emissivity water borne silicone emulsion coatings. Their superb ability to reflect both heat (infrared radiation) and light make them an excellent substitute for metallic foils or metalized plastic films. Absence of combustible solvents eliminates flammability hazards and allows application in enclosed areas.

**OPTICAL CHARACTERISTICS:**
Laboratory application of LO/MIT-II on glass substrates has produced emissivities of 0.22-0.25 and diffuse reflectivities of 81-85%. LO/MIT-II **MAX** on glass substrates has produced emissivities of 0.15-0.17 and diffuse reflectivities of 84-86%.

**VISCOSITY:**
29 seconds #2 Zahn’s cup.

**HARDNESS:**
Extremely durable 3H hardness when heat cured 20 minutes at 450°F. Ambient cure hardness increases with time. Extremely flexible when cured.

**VOC:**
LO/MIT-II VOC Regulatory: 172.73 g/L, VOC Actual: 42.92 g/L
LO/MIT-II **MAX** VOC Regulatory: 215.48 g/L, VOC Actual: 53.55 g/L

**SURFACE BURNING CHARACTERISTICS:**
LO/MIT-II, Class A, Flamespread: 0, Smoke Developed: 0
LO/MIT-II **MAX**, Class A, Flamespread: 0, Smoke Developed: 0

**DEGRADATION:**
Unaffected by UV or elevated temperatures. Thermally tolerant to 1000°F (538°C).

**COVERAGE:**
250-800 square feet/gallon, depending on surface porosity and application method.

**ASTM STANDARD:**

**MIXING:**
LO/MIT-II & LO/MIT-II **MAX** are supplied ready for use. No thinning is required or suggested. Mix well for at least two minutes before use. Do not allow pigments to settle and mix often during use.

**SURFACE PREPARATION:**
Normally, adhesion is the only factor affected by surface preparation. Optical properties will remain constant except on very porous surfaces. Appropriate fillers may be used on porous surfaces to increase smoothness and coverage. Metallic surfaces, such as cold rolled or galvanized steel may require primers to prevent future corrosion. Rusted surfaces should be wire brushed and primed before applying LO/MIT-II/II **MAX** coating. Plastic surfaces may require surface treatment to increase adhesion. Most building materials require no surface preparation except that they are grease and dust free. Masonry surfaces should be allowed to cure for a minimum of one month before application of LO/MIT-II/II **MAX** coating.
APPLICATION:
LO/MIT-II coatings may be applied using standard air atomization spray equipment (gun pressure 25-35 PSI), airless spray equipment (using low pressure and #613 self cleaning tip), low nap roller, or fine bristle brush. Coverage will lessen when using brush or roller. Apply to dry surfaces at above 40°F (5°C).

NOTE: Good ventilation is necessary for operator safety and correct drying and curing. Respirators, Cover-all suits, and protective eyewear are recommended for operator.

CLEAN UP:
Clean spray equipment with a 50% solution of Isopropyl Alcohol and water. Brushes and rollers may be cleaned with soap and warm water.

DRYING and CURING:
Coatings will cure slowly at temperatures of 50-100°F. Curing can be accelerated by application of heat. Ideal cure occurs after 20 minutes at 420°F. NOTE: LO/MIT-II & LO/MIT-II MAX are NOT recommended for exterior applications.

STORAGE and SHELF LIFE:
Store between 35°F-80°F. Keep out of direct sunlight to avoid pressure buildup in container. DO NOT FREEZE. Best if used within 6 months of date of manufacture. Partial pails can be re-used after opening if stored properly and mixed thoroughly.

FIRST AID:
Eye Contact: Flush eyes with fresh water for at least 15 minutes.
Skin Contact: Clean exposed area with Isopropyl Alcohol, then soap & water. Launder contaminated clothing before reuse.
Inhalation: If shortness of breath occurs, remove person to fresh air.
Ingestion: Get medical attention immediately. Do NOT induce vomiting.

CAUTIONS:
Do Not take internally. Contains compounds that may be harmful.
Avoid Breathing vapors or spray mist; open windows and doors to ensure fresh air entry during application.
Do Not Reuse container or do not transfer to bottles or other unmarked containers.
Keep Container closed when not in use. Close container after each use.
Avoid contact with eyes and skin.
Do Not mix with other paints or thinners.
Do Not paint in damp or rainy conditions.
After Using this product, thoroughly wash hands with soap and water before eating, drinking or smoking.

KEEP OUT OF REACH OF CHILDREN.

Optical Properties on Selected Substrates:

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Emissivity</th>
<th>Emissivity after LO/MIT-II</th>
<th>Emissivity after LO/MIT-II MAX</th>
<th>Diffuse Reflectivity after LO/MIT-II</th>
<th>Diffuse Reflectivity after LO/MIT-II MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brick (red clay)</td>
<td>0.92</td>
<td>0.36</td>
<td>0.15</td>
<td>0.36</td>
<td>0.71</td>
</tr>
<tr>
<td>Glass (soda lime)</td>
<td>0.86</td>
<td>0.22</td>
<td>0.15</td>
<td>0.07</td>
<td>0.85</td>
</tr>
<tr>
<td>Galvanized Steel (bright)</td>
<td>0.03</td>
<td>0.25</td>
<td>0.16</td>
<td>0.77</td>
<td>0.84</td>
</tr>
<tr>
<td>Plasterboard</td>
<td>0.90</td>
<td>0.21</td>
<td>0.16</td>
<td>0.55</td>
<td>0.85</td>
</tr>
<tr>
<td>Plywood</td>
<td>0.72</td>
<td>0.22</td>
<td>0.17</td>
<td>0.46</td>
<td>0.81</td>
</tr>
<tr>
<td>Steel, cold rolled, primed</td>
<td>0.87</td>
<td>0.25</td>
<td>0.16</td>
<td>0.22</td>
<td>0.83</td>
</tr>
<tr>
<td>Steel, cold rolled, unprimed</td>
<td>0.10</td>
<td>0.23</td>
<td>0.15</td>
<td>0.57</td>
<td>0.84</td>
</tr>
</tbody>
</table>

Other potential LO/MIT applications include:
Aeronautics, automotive, building & construction, reflectors, high temperature insulation, firefighting, ovens, appliances, process piping, power generation, plastics. Consult factory with questions on potential LO/MIT applications.

Factors beyond our control prevent us from assuming responsibility for damage to person or property, even when this product is applied according to directions. In no event shall our liability exceed the product purchase price.

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