TEMACOAT GPL-S PRIMER

DESCRIPTION
A two component, polyamide-cured high build epoxy primer.

PRODUCT FEATURES AND RECOMMENDED USES
♦ Excellent adhesion to steel, zinc and aluminium surfaces.
♦ Used as a primer or an intermediate coat in epoxy and polyurethane systems exposed to abrasion and/or chemical stress.
♦ Can be used as an intermediate coat on zinc-rich epoxy and zinc silicate paints.
♦ Rapidly recoatable.
♦ Recommended for bridges, haulage equipment, cranes, steel masts, conveyors and other steelwork, machinery and equipment.
♦ The product has MED (Marine Equipment Directive) certificate no 0809-MED-0393 and is thus accepted for painting surfaces inside the ships.

TECHNICAL DATA
Volume solids 55 ± 2 %. (ISO 3233)
Weight solids 68 ± 2 %.
Specific gravity 1.3 - 1.4 kg / l (mixed)
Mixing ratio and product codes Base 4 parts by volume 179-series
Hardener 1 part by volume 008 5600 or 008 5605 (fast)
Pot life 6 hours (23 ºC) with Hardener 008 5600
3 hours (23 ºC) with Hardener 008 5605

Recommended film thicknesses and theoretical coverage

<table>
<thead>
<tr>
<th>Recommended film thicknesses</th>
<th>Theoretical coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>dry</td>
<td>wet</td>
</tr>
<tr>
<td>50 µm</td>
<td>90 µm</td>
</tr>
<tr>
<td>100 µm</td>
<td>185 µm</td>
</tr>
</tbody>
</table>

5.5 m²/l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Drying times

<table>
<thead>
<tr>
<th>DFT 70 µm</th>
<th>+ 5 ºC</th>
<th>+ 10 ºC</th>
<th>+ 23 ºC</th>
<th>+ 35 ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust dry, after</td>
<td>with Hardener 008 5600</td>
<td>2 h</td>
<td>1 h</td>
<td>¾ h</td>
</tr>
<tr>
<td></td>
<td>with Hardener 008 5605</td>
<td>1½ h</td>
<td>¾ h</td>
<td>½ h</td>
</tr>
<tr>
<td>Touch dry, after</td>
<td>with Hardener 008 5600</td>
<td>11 h</td>
<td>5 h</td>
<td>2½ h</td>
</tr>
<tr>
<td></td>
<td>with Hardener 008 5605</td>
<td>6 h</td>
<td>3 h</td>
<td>2 h</td>
</tr>
<tr>
<td>Reacoatable with epoxy paints, min.</td>
<td>with Hardener 008 5600</td>
<td>20 h</td>
<td>6 h</td>
<td>2 h</td>
</tr>
<tr>
<td></td>
<td>with Hardener 008 5605</td>
<td>12 h</td>
<td>4 h</td>
<td>1½ h</td>
</tr>
<tr>
<td>Reacoatable with polyurethane paints, min.</td>
<td>with Hardener 008 5600</td>
<td>32 h</td>
<td>18 h</td>
<td>6 h</td>
</tr>
<tr>
<td></td>
<td>with Hardener 008 5605</td>
<td>18 h</td>
<td>12 h</td>
<td>4 h</td>
</tr>
</tbody>
</table>

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

Finish
Semimatt.

Colours
Temaspeed Primers colour card. TEMASPEED tinting.
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APPLICATION DETAILS

Surface preparation

- Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)
- **Steel surfaces**: Blast clean to grade Sa2½. (ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion.
- **Zinc surfaces**: Sweep blast-clean with mineral abrasives, e.g. quartz sand, to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with FONTECLEAN ZN detergent.
- Hot dip galvanized surfaces are recommended to be painted with a mist coat (paint thinned 25 - 30 %) before the actual priming.
- **Aluminium surfaces**: Sweep blast-clean with non-metallic abrasives to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with FONTECLEAN AL detergent.
- **Stainless steel**: Roughen the surface by grinding or sweep blasting using non-metallic abrasives.
- **Primed surfaces**: Oil, grease, salt and dirt are removed from the surface by appropriate means. Repair any damage to the primer coat. Note the overcoating time of primer. (ISO 12944-4)

Primer

- TEMACOAT GPL-S PRIMER, TEMABOND, TEMAZINC 77, TEMAZINC 88, TEMAZINC 99 and TEMASIL 90.

Finish


Application conditions

- All surfaces must be dry. The temperature of the ambient air, surface or paint should not fall below + 5 ºC during application or drying. Relative humidity should not exceed 80 %. The surface temperature of the steel should remain at least 3 ºC above the dew point.

Mixing components

- First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use Temaspeed Squarrel Mixer for mixing.

Application

- By airless spray or by brush. At airless spray application the paint should be thinned 0 - 10 % by volume. Airless spray nozzle tip 0.011" - 0.017" and nozzle pressure 120 - 160 bar. Spray angle shall be chosen according to the shape of the object.
- At brush application the paint should be thinned according to the circumstances.

Thinner

- Thinner 1031.

Cleaning of equipment

- Thinner 1031.

VOC

- The Volatile Organic Compounds amount is 430 g/litre of paint mixture.
- VOC content of the paint mixture (thinned 30 % by volume) is 540 g/l.

HEALTH AND SAFETY

- Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.
- A health and safety data sheet is available on request from Tikkurila Coatings Oy.

The above information, based on laboratory tests and practical experience, has been proved valid at the date marked on the product data sheet. When necessary verify the validity of the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of the standards ISO 9001 and ISO 14001. As a manufacturer we cannot be responsible for any damages caused by using the product against our instructions of for inappropriate purposes.