**Product Specification Sheet:**

**Tinocrylite Paints**

Acrylate polymer weather & water resistant non-yellowing paint

Non-toxic after drying. Free of lead, mercury, cadmium & hexavalent chromium

Paint, series 2800

Primer Sealer & Lacquer, Nr. 15102

Q.D. Primer Sealer & Lacquer, Nr. 15100

**CHARACTERISTICS**

Tinocrylite Paints & Lacquers are high performance solvent based acrylate polymer (pliolite) paints & lacquers with light fast ingredients that form self-priming tough weather & water resistant coatings with excellent protective properties and resistance to saponification, yellowing & UV rays.

They exhibit superior adhesion to substrates, porous and even chalky substrates with good moisture barrier properties (resistance to moisture vapor transmission), and are suitable for exterior & interior applications particularly building facades in various atmospheric conditions of polluted urban, coastal and industrial environments.

Tinocrylite Paints meet the specifications of the building industry, and provide concrete with high sealing properties and protection against chlorides, CO₂ and other acid gaseous compounds, to diffuse into concrete structures and cause damage by carbonation (DIN 53536 standard).

They hold out well over silane siloxane water repellent, alkyd, acrylic and chlorinated rubber based primers and paints.

**TECHNICAL DATA**

Acrylate polymer (pliolite) based paint complying with the technical requirements of ISO 12944-5 & BS 5493 “protection of steel & concrete surfaces”.

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th>White 2800</th>
<th>Q.D. Lacquer 15100</th>
<th>Lacquer 15102</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Total solids, by volume</td>
<td>42%</td>
<td>35%</td>
<td>31%</td>
</tr>
<tr>
<td>- Total solids, by weight</td>
<td>65%</td>
<td>40%</td>
<td>38%</td>
</tr>
<tr>
<td>- Non-volatile vehicle (resins), by weight</td>
<td>20%</td>
<td>40%</td>
<td>38%</td>
</tr>
<tr>
<td>- Pigments, by weight</td>
<td>45%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>- Density, Kg/L</td>
<td>1.325</td>
<td>0.95</td>
<td>0.85</td>
</tr>
</tbody>
</table>

**CHEMICAL RESISTANCE**

Tinocrylite resin offers very good resistance to chemicals, as per the following table:

<table>
<thead>
<tr>
<th>Chemical Type</th>
<th>Scale</th>
<th>Oils &amp; Fats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acids</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H₂SO₄ concentrated</td>
<td>7</td>
<td>Motor Oil</td>
</tr>
<tr>
<td>HCl concentrated</td>
<td>4</td>
<td>Peanut Oil</td>
</tr>
<tr>
<td>CH₃COOH (10% diluted)</td>
<td>7</td>
<td>Vegetable Oil</td>
</tr>
<tr>
<td>HNO₃ (10% diluted)</td>
<td>5</td>
<td>Mineral Oil</td>
</tr>
<tr>
<td>Alkalis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NaOH concentrated</td>
<td>10</td>
<td>Butter</td>
</tr>
</tbody>
</table>
KOH concentrated  7
Scale 0-10                                10: no film damage                            0:    film lifted
Testing was done through 24 hour exposure (spot test).
In addition to the reagents shown in the above table, Tinocrylite resins show good resistance to most lower alcohols, antifreeze, mustard, merthiolate and many other materials.

RECOMMENDED USES
Tinocrylite Paints are all purpose exterior & interior construction paints & lacquers for new and maintenance painting on new and aged concrete structures, cement plaster, masonry, bricks, asbestos cement, wood and steel structures in coastal, industrial, polluted urban, frequently wet and cold atmospheres.
Tinocrylite Primer Sealers & Lacquers are ideal as toppings for concrete floors and concrete design systems.

SURFACE PREPARATION
Surfaces must be solid clean and dry, free from efflorescence, oil, salt, dirt, rust and other contaminants.
Best results on concrete are obtained by water jet and on steel by sand blasting. Mechanical and manual tools are usually sufficient for most jobs.
All cracks, holes and surface breaks must be repaired with TINOCRETE FILL COAT (resin bound cementitious compound field prepared in compliance with US Federal Specifications TT-P-19b). Leave fill coat to dry thoroughly and cure.
Alkaline and acid surfaces should be cleaned and neutralized.
Deteriorated previously applied paints (flaking, blistering, cracking or heavily chalking) should be removed and cleaned of paint remnants or stains.

PRIMING
Usually no primer is necessary on concrete substrates, as Tinocrylite Paint & Lacquer are self-priming coatings. On absorbent surfaces the 1\textsuperscript{st} coat of paint is usually applied diluted up to 50%, and the 1\textsuperscript{st} coat of lacquer is usually applied diluted up to 100%
Prime metal surfaces with TINOGALVANIZE ZINC RICH PRIMER Nr. 16660 at 40µm d.f.t., or with any of TINOLUX ANTI-RUST PRIMERS 15071/ 15072/ 15080 at 80µm d.f.t..
Etch galvanized metals (zinc coated) with TINOPRIME ACTIVATOR 7 and prime with one coat of TINOPRIME Nr. 15770, or with any of TINOCHLORYLIC RUST KILLER PRIMERS 15650/ 15652/ 15660/ 15670.

THINNING
Tinocrylite Paint series 2800 & Lacquer Nr. 15102 are thinnable with TINOSOLVE 1006. Thin paint up to 15% for brush/roller application & up to 20% for spray application.
Tinocrylite Q.D. Primer Sealer & Lacquer Nr. 15100 is thinnable with TINOSOLVE 1003 or 1004 up to 100% when applying the 1\textsuperscript{st} coat and up to 50% when applying the 2\textsuperscript{nd} coat.

APPLICATION
As per Code of Practice.
Spray application (preferably airless spray) is ideal for neat & smooth finishes.
Brush or roll application is also applicable. Do not over brush to avoid pulling under the brush or subcoat color bleeding.
Tinocrylite Primer Sealers & Lacquers are intended for application as primer sealers and finishing lacquers where a clear coating is required, and could be applied by a squeegee as toppings on concrete floors.
These paints & lacquers should not be applied on hot surfaces on sunny days. The best time to apply them is in the shade, otherwise the paint may blister.
DRYING & RECOATING TIME
A coated film of about 100µm w.f.t. at 23°C and 65% r.h.
- Dries to touch in 1 hour
- Dries to recoat overnight
- Dries to handle in 24 hours

GLOSS
- Paint series 2800 gives an eggshell lustreless finish.
- Lacquers Nr. 15100 & 15102 give gloss finish.

COVERAGE
Depending on the film thickness required and condition of surface. Contents of 1US gallon of:
Paint series 2800 cover 40sq.m. at 40µm d.f.t.
Q.D. Primer Sealer & Lacquer Nr. 15100 cover 38sq.m. at 35µm d.f.t.
Primer Sealer & Lacquer Nr. 15102 cover 34sq.m. at 35µm d.f.t.

COLORS
Paint series 2800 is available in a multi-color range, as per color card. Custom colors available on request.
Lacquers are colorless (clear coating).

PACKING
In cylindrical tin containers of the following capacities:
- 1 US gallon = 3.78 L
- 1 quart = 0.94 L
- 5 US gallons pail = 18.9L (on request)
Every 4 gallons or 6 quarts are crated to a carton box.

WARRANTY
TINOL products are warranted to be free of material and manufacturing defects, and to give the performance required of good quality coatings of International Standards, when properly applied in accordance with the written directions and the Code of Practice.
If any product proves to contain material or manufacturing defects that substantially affect its performance, it will be either replaced free of charge or purchase price will be reimbursed. Other liabilities or claims for any consequential loss or damage are disclaimed.

LABELLING & SAFE HANDLING
Flammable liquid, keep away from flame, high heat or sources of ignition.
Arrange for adequate ventilation upon application especially when spraying in closed areas.
All liquid solvent bearing industrial paints need handling with care. Keep container tightly closed. Avoid contact with eyes. Do not smoke while applying such products. It is recommended to wear suitable gloves.
Do no contaminate with surface water and do not pour into drainage system.