Product Description

Lockwell P-530 is a highly flexible, 100% solid, aromatic, and two components pure polyurea with non-slip (when combined with a broadcast material), for excellent workability and finishing performance. Due to its high elongation property, P-530 can also be used for composite systems (geotextile overlay) for erosion control applications, coastal engineering and waste water treatment facilities (reduces solids accumulation)

Features

- Excellent thermal stability
- Zero VOC
- No toxic vapors
- Odorless
- 100% Solids
- Seamless
- Low water vapor permeability
- Flexible at low temperatures
- Non-reactive
- Good chemical resistance
- Can be used without primer in some applications (particularly steel)
- Excellent abrasion resistance and carry back
- Used with or without reinforcement in transitional areas.

Application Area

- Warehouse Floors
- Aesthetic waterproofing
- Flooring systems
- Flood Grade Processing Plants
- Partial self-leveling (better flow)
- Hospital Floors
- Marine Environments
- Secondary Containment
- Geotextile Composites
- Parking Garage Decks
- Long recoat window
- Coastal Reservation facility

Technical/ Performance Data

<table>
<thead>
<tr>
<th>Material Property</th>
<th>Component A (Isocyanate)</th>
<th>Component B (Resin)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (kg/L)</td>
<td>1.11</td>
<td>1.00</td>
</tr>
<tr>
<td>Viscosity (Cps @ 21°C)</td>
<td>900</td>
<td>700</td>
</tr>
<tr>
<td>Mix ratio (by volume)</td>
<td>1 : 1</td>
<td></td>
</tr>
<tr>
<td>Solid (mixed) by volume</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Flash Point (Pensky)</td>
<td>&gt;145°C</td>
<td></td>
</tr>
<tr>
<td>Martens Closed Cup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>1L = 1mm thick over 1m²</td>
<td></td>
</tr>
</tbody>
</table>

Application Coverage

- Theory Coverage: 1L = 1mm thick over 1m²
- Maximum recoat window: 8 - 12 Hours
- Can be used without primer in some applications (particularly steel)
- Excellent abrasion resistance and carry back
- Used with or without reinforcement in transitional areas.

Technical Data

- Excellent thermal stability
- Zero VOC
- No toxic vapors
- Odorless
- 100% Solids
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Introduction

This coating is designed for application through heated, plural component, high pressure reactor spray equipment capable of supplying material at the spray gun at a minimum of 2000 psi spray pressure and material temperature of 60-80°C (depending on geographical location). Graco plural component reactors using impingement mix tips in plural component air and mechanical purge guns (air purge recommended) are typically used.

If there is any change in colour or consistency of the material, the sprayer should stop immediately and troubleshoot the equipment. Filters should be checked periodically for any build-up of material.

Application Temperatures

Minimum recommended material and substrate temperatures are 24°C and 10°C respectively. Maximum recommended substrate temperature is 50°C. Wider temperature windows can be achieved but please consult your technical representative for specific advice.

Colors

Standard colors are grey/black and natural/cream. Custom colors can be produced on request, but may require additional lead time and price premium. Contact your local distributor for availability.

Due to its aromatic composition, Lockwell P505 will tend to yellow or darken in colour, and will become matt after exposure to UV light however no chalking or major loss of physical properties after exposure for over 25 years. It can be top coated with an aliphatic polyurethane coating for a colour-fast finish to maintain aesthetics.
**Technical Data Sheet**

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**Cure Time and Recoat Time**
Development of a full cure may take up to 24 hours. Material maybe recoated when tack-free. Old, sound coatings should be lightly abraded to remove any oxidized material and cleaned thoroughly prior to recoat. Consult your technical representative for options regarding treatment of day joints and coating over cured product.

**System Specification**

**Primer**
Use Lockwell P-601 Concrete Epoxy Primer as the under layer primer.

Referring to Lockwell Systems technical representatives and distributors to verify specific application recommendations.

**Recommended Thickness**
- Abrasion resistant: 3 mm min. thickness
- Corrosion & Chemical resistant: 2 mm min. thickness

Note: Contact your local distributor for application specific recommendations.

**Number of Coats**
This product can be applied in thicknesses from 1 mm up to several cm in one monolithic coat. To build to specification, allow just enough cure time for the first coat to become firm, and then spray the next coat. Do not exceed recommended recoat window. When building to more than 4 mm thickness, pause for at least 5 minutes every 3 mm (approximately) to allow sufficient exotherm and to cure evenly in the layers.

Sometimes two or more coats are applied using different colors as a visual wear indicator. The additional coats should be applied as soon as possible after the preceding coat has gone tack free, but no longer between coats than the specified recoat window of 2 hours.

**Top Coat**
An aliphatic system such as Lockwell UP-115 solar resistant PU (or) Polyaspartic polyurea (or) "other LW approved" may be required for some applications, particularly where color stability is required (this product is 100% UV stable, but not color stable). Contact your distributor for a range of options. The top coat shall be applied as soon as possible following the final coat reaching tack-free status, with a maximum time between coats as specified by the recoat window of this product.

**Storage and Handling Precautions**
The Part A should be kept properly closed and stored indoors in a well-ventilated area under normal factory conditions. Storage at room temperature (20-25°C) also provides a convenient viscosity for handling.

Storage at low temperatures (below 10°C) is not recommended because it may lead to some crystallization: this material must be protected from frost. Drum heaters may be used with the heat setting at low.

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**LOCKWELL P-530**

The material should be agitated to uniformly distribute the heat. In no circumstances should the material be heated above 80°C during preconditioning.

Storage temperatures above 50°C are not recommended since they can accelerate the formation of insoluble solids and also increase the viscosity over extended storage intervals.

Under the recommended storage conditions and in properly sealed containers, the components have nominal storage life of 12 months. If either component is opened and partially used, it should be purged with nitrogen or desiccated air and resealed or refilled into smaller containers to their maximum volume.

**Packaging**
Standard 400L kits, 2 x 200L Drums per kit. Other sizes may be available on request.

**Chemical Resistance**
The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Contact Lockwell Systems technical representatives and distributors for specific recommendations for chemical resistance prior to specifying these products in this application type.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>R</td>
</tr>
<tr>
<td>Phosphoric Acid</td>
<td>R</td>
</tr>
<tr>
<td>Ammonium Hydroxide (10%)</td>
<td>R</td>
</tr>
<tr>
<td>Potassium Hydroxide (10%)</td>
<td>R</td>
</tr>
<tr>
<td>Ammonium Hydroxide (20%)</td>
<td>R</td>
</tr>
<tr>
<td>Potassium Hydroxide (20%)</td>
<td>R</td>
</tr>
<tr>
<td>Ammonium Hydroxide (50%)</td>
<td>RC</td>
</tr>
<tr>
<td>Potassium Hydroxide (50%)</td>
<td>RC</td>
</tr>
<tr>
<td>Hydraulic Fluid</td>
<td>R</td>
</tr>
<tr>
<td>Sodium Hydroxide (10%)</td>
<td>R</td>
</tr>
<tr>
<td>Hydrochloric Acid (10%)</td>
<td>R</td>
</tr>
<tr>
<td>Sodium Hydroxide (50%)</td>
<td>RC</td>
</tr>
<tr>
<td>Gasoline (unleaded)</td>
<td>R</td>
</tr>
<tr>
<td>Sulphuric Acid (15%)</td>
<td>R</td>
</tr>
<tr>
<td>Hydrogen Sulphide (gas)</td>
<td>R</td>
</tr>
<tr>
<td>Waste water</td>
<td>R</td>
</tr>
<tr>
<td>Diesel Fuel (Kerr-McGee)</td>
<td>C</td>
</tr>
<tr>
<td>Sea Water</td>
<td>R</td>
</tr>
<tr>
<td>Motor Oil, Brake Oil</td>
<td>RC</td>
</tr>
<tr>
<td>Water (Tap) @ 80°C</td>
<td>R</td>
</tr>
</tbody>
</table>

R - Resistant
RC - Slight surface change, discoloration with no loss of hardness

**Additional Information - Disclaimer**
The information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials and equipment used, as well as varying working conditions and environments beyond our control we strictly recommend carrying out intensive trials to test the suitability of our products with regard to the required processes and applications. This data sheet is provided free of charge and we do not accept any liability with regard to the above information or with regard to any verbal recommendation, except for cases where we are liable of gross negligence or false intention.

February 2017
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