

# Pentra®-Paint

(LM) Safety and Traffic  
Marking Paint

Convergent Group S.A.

Specialty Chemical Concrete  
Treatments Commercial

Products Group  
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**nanoLithium**

Patented Technologies by Advan

Nano-Lithium® (NL)  
Concrete Treatment  
[www.nano-lithium.com](http://www.nano-lithium.com)



## PRODUCT DESCRIPTION

**Pentra®-Paint (LM) is a Hybrid Inorganic / Organic Nano-Lithium® Safety & Traffic Marking Paint.** This high solids, high performance lithium-silicate water-based formulation is designed for use as traffic and lane marker paint for concrete, asphalt and masonry. It is available in white, yellow, black and gray. This unique chemistry is extremely low in VOC's (less than 50 grams per liter), environmentally friendly and has a very low polymer/ ammonia odor.

**Pentra®-Paint (LM)** is ideal for marking interior and exterior curbing and lanes on driveways, sidewalks, factory floors, and parking lots and can also be used as a coating over larger areas. It conforms to TT-P-1952D Type I (normal conditions) and Type II (adverse conditions), as well as most state specifications. For use on concrete, asphalt, terrazzo, stone, and masonry substrates.

## KEY BENEFITS:

- Abrasion resistant, fast drying, high visibility
- Glass beads can be added for making reflective markings
- Out-performs epoxies, urethanes and acrylics in durability, adhesion, and longevity
- Tenaciously bonds and chemically reacts forming a durable insoluble bond with the substrate that will not peel, flake or delaminate
- Creates a stronger, more impenetrable, and better-looking paint finish (colored semi-gloss) that is dust-proof, and resistant to staining and deterioration
- Rapidly cures into a durable finish for facilities that require maximum protection, excellent recoatability, and little-to-no down time
- Easy soap and water clean up

## USES

Airport runways, shopping centers, municipalities, plant maintenance, parking lots curbs, walls, factory floors, commercial floors, safety and lane markings.

**CUSTOMER SERVICE:**

(+32 60 390 752) to verify the most current versions, visit our website: [www.convergent-group.com](http://www.convergent-group.com) or scan the code.

**APPLICATION**

**BEFORE APPLICATION, ALWAYS DO A SMALL TEST SAMPLE IN A LESS-VISIBLE AREA TO BE SURE THERE ARE NO VARIABLES OR CONTAMINANTS IN THE SUBSTRATE THAT MAY BE INCOMPATIBLE WITH THIS PRODUCT.**

**SUBSTRATE PREPARATION**

For best adhesion create a rough surface profile using shot blasting, diamond grinding, acid etching or similar methods. Clean and neutralize. The surface must be dry, free of surface contaminants, and in sound condition. Grease, and oil should be removed by ASTM D4258-83 and release agents should be removed by ASTM D4259 – 88 Refer to SSPC-SP13/NACE No 6 mechanical or chemical surface preparation methods for preparing concrete to suitable cleanliness for intended service. Allow a minimum 7–14 days cure time for new concrete prior to preparation and application.

**PREVIOUSLY EXISTING COATINGS**

Prepare surfaces using SSPC-SP12/NACE No. 5 Low Pressure Water Cleaning methods to remove surface contamination. Supplement SSPC-SP 12 LPWC with SSPCSP1 Solvent Cleaning and SSPC-SP2 and 3 Hand and Power Tool clean areas of corrosion and loose or flaking paint (feather edges of sound, existing paint back to a firm edge). Sand glossy surfaces to provide profile. Apply a test sample to a small area to determine coating compatibility.

Mask areas that do not receive **Pentra®-Paint (LM)** Traffic Marking and Safety Paint to protect from over spray. Important: Mix well and mix immediately before applying paint.

**Spray at 0.38-0.5 mm wet.**

Viscosity is similar to most industrial line stripe paints. May be thinned with water. With airless equipment use standard test pattern techniques to determine optimum tip size. The actual tip size and pressure settings will vary according to machine maker and model. We highly recommend adjusting your equipment to optimize the spray pattern and familiarize yourself with the “paint/finish” characteristics on a test surface before arriving at the job site. For manual application, foam rollers or very low nap rollers are most effective. If a second coat is necessary, wait until the first coat is dry to avoid lift-off--usually about 1 hour. Sprinkle anti-slip aggregates or reflective glass beads (125 µm) immediately on wet surface if specific traction is desired. For added durability and protection, a clear coat of **Pentra®-Finish (HG)** may be applied.

**ESTIMATED COVERAGE**

1 liter per 3.5-6m<sup>2</sup> depending on substrate.

**CLEAN UP**

Use soap and water to clean tools and equipment. Although **Pentra®-Paint (LM)** is non-toxic and environmentally safe, it is alkaline—use up or dry out extra material and dispose of according to local regulations. Don't pour into sewer systems or storm drains.

**FINAL RESULTS**

Extremely durable semi-gloss / matte finish depending on porosity of substrate.

Light pedestrian use within 30-60 minutes, vehicle traffic in 2 hours. Maximum performance may take up to 14 days to develop, depending on temperature and humidity. If possible, do not allow standing water or puddles of water to be left on the surface for three days. Make certain the most current versions of **Pentra®-Paint (LM)** Coating Product Data sheet and MSDS are being used; Please read this information prior to use; call Customer Service (+32 60 390 752) to verify the most current versions or visit our [www.convergent-group.com](http://www.convergent-group.com).

## SAFETY / HEALTH INFORMATION

**Pentra®-Paint (LM)** is an aqueous Lithium silicate solution that uses proprietary compounds. The treatment is alkaline and may cause eye and skin irritation. KEEP OUT OF THE REACH OF CHILDREN. Do not take internally. Avoid prolonged contact with skin. Avoid ingestion of material. If swallowed, do not induce vomiting – call physician. Avoid contact with eyes. Protective clothing is recommended. Protective goggles are recommended in case of splashing. If splashed in eyes, wash immediately with clean water and call physician if irritation persists. Contact areas should be thoroughly washed with soap and water. Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet. **Pentra®-Paint (LM)** will bond to most surfaces—immediately wash off over spray with water and mild detergent. Caution: Surfaces wet with **Pentra®-Paint (LM)** may be slippery.

## PROPERTIES

Form:	Viscous liquid, color matches label
Total Solids:	33-37%
Active Ingredients:	100% of total solids
Specific Gravity:	1.15-1.17
pH:	11.2-12.2
Film:	Yes
Flash Point:	None
V.O.C. Content:	Less than 50 g/L
Freeze point:	0°
Abrasion Resistance:	Excellent
Viscosity:	5200 CPS

## PACKAGING

5 L Pail  
 10 L Pail  
 20 L Basket

## STANDARD COLORS

White, Yellow, Black and Gray

## LIMITATIONS

### FOR PROFESSIONAL USE ONLY

Protect from freezing. Agitate before use. Do not allow standing water to dwell on surface for 3 days following application if possible. Do not allow traffic on surface until it is dry—typically 30-60 minutes. **Pentra®-Paint (LM)** will not bridge or fill cracks, and will not salvage honeycombed or structurally unsound surfaces. **Pentra®-Paint (LM)** quickly bonds to most surfaces including metal, wood, glass, and paint. Protect adjacent surfaces. Remove overspray quickly with a damp cloth and soap. Always do a test patch before beginning the job to verify coverage, appearance, and substrate variations.

**TECHNICAL SERVICE**

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**WARRANTY**

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CONCRETE TECHNOLOGIES

Refer to [www.convergent-group.com](http://www.convergent-group.com) for latest Technical Data Sheet and MSDS.

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