

# NEKTRA<sup>PRO</sup>

# Leveler

Polymer-modified self-leveling underlayment



## 1. PRODUCT NAME

NEKTRA PRO Leveler

## 2. MANUFACTURER

Made and packaged in Quebec for:

NOVELCA  
6245 boul. Wilfrid-Hamel  
L'Ancienne-Lorette, Quebec G2E 5W2

Phone : 418 667-1313  
Fax : 418 667-3705

## 3. PRODUCT DESCRIPTION

**NEKTRA PRO Leveler** is a superfluid, polymer-modified self-leveling underlayment that can be poured or pumped to correct, level and smooth concrete surfaces from 1/8" (3 mm) up to 1" (25 mm) deep. This Leveler is suitable for interior institutional, commercial and residential applications, and can be used as a thermal mass over hydronic and electric radiant systems. Mix with water only.

### Suitable Substrates\*:

- Dry, completely cured concrete (at least 28 days old)
- Cement backer units (CBU)

\*See "Surface Preparation" section for more suitable substrate options

### Limitations:

- For INTERIOR installations only.
- Do not use at temperatures below 10°C (50°F) or above 35°C (95°F).
- Do not use for applications exceeding 1" (25 mm) deep in thickness.
- Do not apply directly over particleboard, chipboard, presswood, Lauan, masonite, OSB and other dimensionally unstable materials.
- Do not use over any type of cushioned flooring surface.
- Allow the self-leveling underlayment to dry properly prior to installing the floor covering.
- Do not leave without floor covering or exposed as a resurfacing material.
- Do not use for filling cracks, holes and deep areas.
- Do not use where high moisture and hydrostatic conditions and/or recurring moisture problems exist.
- Do not use in places subject to immersion.
- Do not add water to the mix once it begins to thicken.
- Do not add sand, aggregate or additional water to the mix.
- Protect from any direct air ventilation or heat radiation source, such as direct sunlight, during and after the installation, for a minimum of 24 hours. These conditions could cause the self-leveling product to cure too rapidly, resulting in micro-cracking.
- **Do not accelerate curing time by using ventilators or heating appliances.**

### Packaging:

50 lb (22.7 kg) bag

## 4. TECHNICAL DATA

### Applicable Standards:

For additional information, please refer to the most recent TTMAC Specification Guide 09 30 00 Tile Installation Manual.

### Technical Table:

@23 °C [73 °F] at 50% RH

Working time	> 20 minutes
Flowing time	≥ 20 minutes
Time before installing floor covering	48 hours
Time before installing ceramic tile	24 hours
VOC content	0 g/L
Linear shrinkage (%) @ 28 days	< 0.05%
Flexural strength (ASTM C-348) @ 28 days	> 5.6 MPa (800 psi)
Tensile bond strength (ASTM D4541 [Concrete]) @ 7 days	> 2.2 MPa (300 psi)
Compressive strength (ASTM C-109) @ 28 days	> 24.0 MPa (3,500 psi)
Density	2.0 g/mL
Approximate coverage per 50 lb (22.7 kg)	
<b>Thickness</b>	<b>Coverage</b>
1/8" (3 mm)	50 ft <sup>2</sup> (4.6 m <sup>2</sup> )
1/4" (6 mm)	25 ft <sup>2</sup> (2.3 m <sup>2</sup> )
1/2" (13 mm)	12 ft <sup>2</sup> (1.1 m <sup>2</sup> )
1" (25 mm)	6 ft <sup>2</sup> (0.6 m <sup>2</sup> )
Shelf life:	
12 months if kept in its original unopened packaging and stored in a dry location.	

### Surface Preparation:

- All supporting surfaces must be structurally sound, solid and stable.
- Surfaces must be clean and free of dust, oil, grease, paint, tar, wax, curing agent, primer, sealer, form release agent or any deleterious substance and debris which may prevent or reduce adhesion.
- Acids, concentrated alkaline conditions and cleaning chemical residues must be neutralized or removed.
- All concrete substrates must be completely cured (at least 28 days old), solid, sound, slightly textured and have a direct tensile cohesive strength greater than 1.2 MPa (175 psi) when tested in accordance with ACI 503 R – (Appendix A) procedure.
- On grade or below grade concrete slabs must be installed over an effective vapor barrier.
- All concrete substrates must be dry and free of hydrostatic conditions and/or extreme moisture problems. Perform a calcium chloride moisture emission test (ASTM F-1869) on the concrete substrate before proceeding with the installation of the floor. For wood flooring and resilient floor covering installations, the moisture vapor emission of the concrete must not exceed 1.36 kg per 93 m<sup>2</sup> (3 lb per 1,000 ft<sup>2</sup>) per 24 hours. Do not prime, repair, level or patch the substrate, or install any floor covering materials until moisture problems and conditions have been addressed to meet these requirements.
- Smooth concrete substrate surfaces must be either **primed with the appropriate PROMA primer** or mechanically roughened in accordance with an engineer-approved procedure (shot-blasting, scarification, grinding, sand or water-blasting, etc) to provide sufficient surface texture and profile for the adequate bonding of the subsequent leveling product.
- If concrete is dry and porous, it must be **properly primed with the appropriate PROMA primer** to prevent an uncontrolled absorption of water out of the self-leveling mix and also to avoid formation of air bubbles on the surface.
- Existing concrete slabs with old cutback adhesive or carpet adhesive residues must be **properly scraped, roughened and cleaned. Then, prime the surface with the appropriate PROMA primer** prior to the application of the self-leveling underlayment.
- Apply over gypsum and light-weight concrete, provided that the tensile bond strength of 72 psi (0.5 MPa) is reached as a minimum for self-leveling applications and surface is properly primed **with the appropriate PROMA primer**.

Additional approved surfaces, such as existing ceramic and quarry tiles, porcelain, granite and marble; cementitious and epoxy terrazzo floors; exterior grade Douglas fir plywood (certified CANPLY [SELECT] or [SEL-TF] CSA 121, for INTERIOR residential light-duty floors in dry areas only); metal such as steel, copper, stainless steel, aluminum or lead; existing VAT and VCT tiles, and non-cushioned vinyl sheet goods; homogeneous PVC flooring; and resin-based floor coverings (epoxy, urethane or polyurethane) **must be properly primed with the appropriate PROMA primer.**

## Mixing:

1. Use clean mixing-tools and containers.
2. In a clean mixing container, measure and pour **EXACTLY 5.2 L (1.4 US gal)** of cool clean water and gradually add **22.7 kg (50 lb) of Leveler powder mix**, while mixing slowly.
3. Using a low-speed mechanical mixer (150 - 300 rpm), mix until a homogeneous, smooth, lump-free, consistency is achieved.
4. The product is now ready for setting.
5. Use the product within the shortest possible delay (within a few minutes).

## Application:

**Note: Protect from any direct air ventilation or heat radiation source, such as direct sunlight, during and after the installation.**

1. Pour the self-leveling mix on the substrate and help spread it in place with a trowel or squeegee or by continuous pumping.
2. The mix will level itself out while leaving a smooth finish.

## Expansion and Control Joints:

- Install control joints where tiles abut restraining surfaces, around the perimeter of the work and at the base of columns and curbs.
- Install and space expansion and control joints in all directions in accordance with TCNA HANDBOOK FOR CERAMIC TILE INSTALLATION Detail #EJ-171 recommendations, or TTMAC SpecificationGuide093000Detail#301-MJrecommendations. CAUTION: DO NOT cut EXPANSION JOINTS in after the tiles have been installed. Install tiles normally and stop when the control joint location is reached. Cut the tile if required and resume setting from the opposite side of the joint. Before proceeding further, rake the joint and leave the tile and joint space clean.
- DO NOT FILL EXPANSION JOINT SPACE UNTIL GROUTING IS COMPLETED on the remainder of the job.
- Install a suitable industry-approved compressible bead and flexible sealant to caulk expansion and control joints. Follow the sealant manufacturer's installation instructions.

## Curing and Protection:

- 24 hours at room temperature (foot traffic).
- Install ceramic tiles, porcelain or natural stones after 24 hours.
- Install resilient floor covering, carpet, engineered wood and wood parquet after 48 hours.
- Material should be completely dry prior to applying the floor covering adhesive. **Note:** Drying time may vary depending on the temperature and humidity level. **Do not attempt to accelerate drying and curing through forced ventilation, fans or heat-blowers.**
- Ensure that the moisture vapor emission of the concrete does not exceed 1.36 kg per 93 m<sup>2</sup> (3 lb per 1 000 ft<sup>2</sup>) per 24 hours when tested in accordance with the calcium chloride moisture emission test (ASTM F-1869) prior to the installation of a resilient floor covering or other material sensitive to water.
- Protect from traffic and dust until floor covering is completely installed.

## Cleaning:

Clean tools and hands with water while the product is still fresh.

## Health and Safety:

Refer to the Safety Data Sheet (SDS) for complete details.

## 6. AVAILABILITY AND COST

NEKTRA PRO Leveler is available in Quebec at CANAC locations.

## 7. WARRANTY

### One year limited warranty

PROMA Adhesives, Inc. offers this limited warranty, which is for one (1) year from the original date of purchase of this Nektra Pro Leveler (hereafter: the "Product"). This limited warranty is valid only for the original purchaser of the Product and it may not be transferred. This limited warranty is not meant to exclude, restrict, limit or modify the legal warranty given by law to the purchaser of the Product. This Product is a quality product. It was made and selected with care. If the Product were defective, the retailer of the Product commits to replace or repair, to its sole discretion, the defective Products without charge under the following cumulative conditions: 1) the purchaser must contact the retailer where he purchased the defective Product; 2) the purchaser must bring back the defective Product to the retailer; 3) the purchaser must hand back to the retailer the invoice as proof of purchase and date of purchase of the defective Product; 4) the purchaser must supply the defective Product identification information, including the serial number or the model number; and 5) the period of one (1) year covered by this limited warranty must not be expired.

This limited warranty is not applicable: 1) to consumable parts; 2) to normal wear; 3) when the Product is used for other purposes than residential ones or for other purposes than those determined by the manufacturer; 4) when the serial number or other identification information of the Product is erased or withdrawn; 5) to damages that are only aesthetics and do not affect the normal use of the Product; 6) to labor costs such as installation, de-installation or shipping of the Product which must be paid by the purchaser; 7) to service call costs, when the service call is made while the warranty is not applicable; 8) when the damages, defects, faults or other problems arise from: a) an abnormal use of the Product; b) an inadequate maintenance of the Product; c) a improper application, a improper installation or a improper use of the Product or an application, installation or use that is not in accordance with the user's manual (if one exists); d) a modification or a repair to the Product by someone other than those authorized by the retailer or the manufacturer; e) the transportation by the purchaser, his employee, officer or representative; f) a negligence by the purchaser, his employee, officer or representative; g) an accident; h) a case of force majeure (are considered force majeure: natural disasters, lightning, flood, fire, etc.); or i) any event that is not caused by the Product itself. In no circumstances can the manufacturer or the retailer be held responsible for any extraordinary, special, indirect, accessory or consecutive damages resulting from the use of or the incapacity to use the Product. Their responsibility is limited to the sales price of the Product as indicated on the invoice and paid by the purchaser at the time of purchase. It is understood that this is not meant to limit, restrict or exclude the protection given by the legal warranty.

## French version vs English version

In case of discrepancy between the French and the English versions of the text of this limited warranty, the French version would prevail.

## Modifications

This warranty text could be amended at any time.

## 8. MAINTENANCE

Product requires no special maintenance. Do not leave without floor covering or exposed as a resurfacing material.

## 9. TECHNICAL SERVICE

For more detailed information on this product, please contact our technical department for proper recommendations and job field assistance.

Phone: 418 667-1313

## 10. FILING SYSTEM

Additional information is available upon request.

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