

**PRODUCT DATA SHEET. COMBIMIX Industrial LP920, CT-C30-F6**, is a premium compound pourable or pumpable quality topping material for use over concrete, stone and ceramic. It may be used without a topical sealer or topcoat if aesthetics and stains are not a concern, such as mechanical rooms and warehouse application. Please note, sealers are recommended for use in areas where food or chemicals may be used or in decorative applications or areas where aesthetics are important. COMBIMIX Industrial LP920 accepts direct application of most professional top coats, such as resinous coatings ( acrylic, polyurea, polyurethane and epoxybased) only in 2-3 days as well as epoxy terrazzo after 3-5 days. Available in Grey only. Installs from 1/4" to 1 1/4".



# Industrial LP920

## Substrate Preparation

The substrate must be clean and free of dust, cement debris, grease, or other contaminants that may prevent adhesion. The adhesion strength or surface strength may not be less than 216 psi (1.5 MPa). The substrate is always primed with PP600 before filling. With respect to the formation of a film on the primer, the temperature of the substrate may not be lower than 43°F (6°C). For best results the temperature at the work site should be between 50°F (10°C) and 77°F (25°C). At higher or lower temperatures the time for hardening will be shorter or longer, respectively. New concrete slabs must be allowed a minimum of 30 days prior to capping with Industrial LP920 to allow for the concrete to hydrate and loose mass. Otherwise, cracking may occur due to settling of the concrete substrate or telegraphing of cracks. Please note, moving cracks in older concrete may telegraph through the topping if they continue to move. The guideline of 90 % RH should be set for the concrete pad as the upper limit for smoothing work.

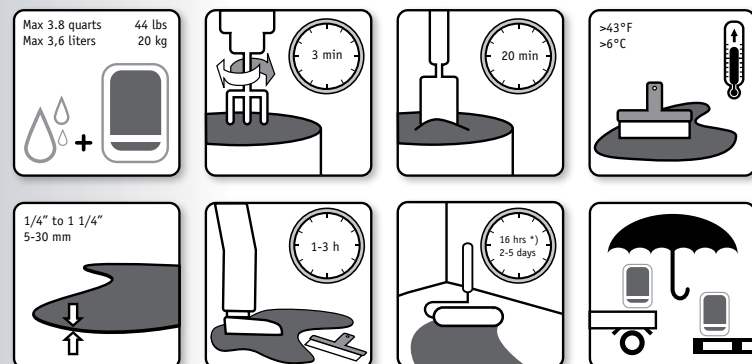
## Mixing

**MANUAL MIXING:** Industrial LP920 should be mixed with max 3.8 quarts (3,6 L/max 18%) of water per 44 lb. bag. Do not over water. For manual application, add product to water and mix for 3 minutes with a heavy duty drill (650 minimum rpm) to obtain a lump-free mix. Combimix recommends the use of a Perles ME120 drill or similar for manual installations.

**PUMP MIXING:** Industrial LP920 can also be used in most pump equipment. Start pump at a minimum of 110 gallons of water per hour and adjust as necessary to yield a self leveling consistency. Water ratio varies depending on speed and yield capacity of pump equipment. A slump test should always be performed to ensure that mix is homogenized and free from separation. When an ideal patty size of maximum 5 5/16" is obtained, Industrial LP920 is properly mixed. A yellowish film on the surface of Industrial LP920 or separation (aggregate settling to the bottom of the mix, fines to the top) while in a wet state is a sign of too much mix water.

## Application

Apply blended material onto substrate at a thickness of 1/4" to 1 1/4" (5-30 mm) for all recommended substrates. Immediately pour, set thickness using a Combimix Gauge Rake at necessary depth and smooth the mixed material using a Combimix serrated smoother while continuously pouring ribbons tying into a wet edge. Material can be walked on after 1 to 3 hours. Protect Industrial LP920 from excessive heat or draft conditions during the curing process. Turn off all forced ventilation and radiant heating systems that may directly blow air on the fresh or damp surface of Industrial LP920 as this may change the color of the finished product and may cause surface imperfections such as pin holes. Protect for up to 24 hours after completed installation.

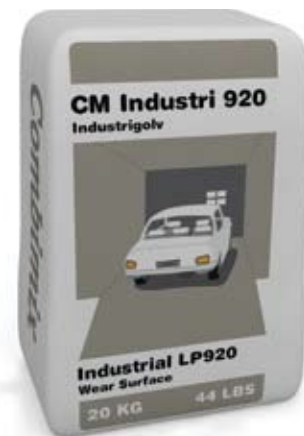


\*) Water based sealers can be installed 16 hours after application, depending on drying conditions and type of sealers. For more information, contact your sales representative or see the product sheet at [www.combimix.com](http://www.combimix.com).

## Performance characteristics

- ✓ Can be installed at depths of 1/4" to 1 1/4".
- ✓ Walkable in 1 to 3 hours.
- ✓ Water based sealers can be installed 16 hours after application, depending on drying conditions and type of sealers. For more information, contact your sales representative or see the product sheet at [www.combimix.com](http://www.combimix.com).
- ✓ No need for sealers or toppings when used as wear surface.
- ✓ Can be applied directly over wet concrete\*\*). (RH 95% or less per ASTM F2170)
- ✓ Coverage approximately 25 sq. ft. per 44 lb. bag at 1/4" thickness.
- ✓ Combimix Industrial LP920 is entirely protein free and will not contribute to or harbor growth of bacteria, mold or mildew.
- ✓ Indoor Air Quality (IAQ) Safe - Will not contribute to damaging emissions or irritating fumes.

**\*\*\*) Please note all flooring materials have different permeability rates of moisture. Please consult Combimix prior to installing products in moisture condition out of flooring manufacturer's specifications. Combimix will make specific recommendations based on flooring type, adhesives used and environmental conditions.**



## Subsequent treatment

The semi-hardened smoothing mass can easily be formed or cut before the filler has dried too much.

## Limitations

Industrial LP920 is not for installation over wood, metal, vinyl, or radiant heated substrates. For indoor applications only.

## Storage time and packaging

Product should be stored in dry conditions and in original packaging. Use within six months of date of manufacture. Industrial LP920 is available in 44 lb. vinyl-lined paper bags. Available in white color in 55 lbs. bags (see separate data sheet).

## Residues and safety instructions

Empty sacks should be burned. Remaining powder should be stored under dry and air-tight conditions within the applicable storage time or mixed with water and allowed to harden. It can then be disposed of as construction waste. The product may not be put into the waste water system. The cement contained in the product is chromate reduced.

## Documents regarding health, environment, safety, and technical service

The current version of the product sheet, CE document, description of construction materials, and the Material Safety Data sheet are found at [www.combimix.com](http://www.combimix.com). Previous undated and dated versions are no longer applicable. For more information please contact our sales organization.

This product information sheet contains general instructions. Use of the product occurs under many varied conditions and prerequisites. Combimix is not responsible for storage, use in construction, working or implementation, concurrent effects with other products, use limited by local conditions, or other external factors. Combimix is also not responsible in cases where the above information is incorrectly interpreted or departed from by the user.

**WARNING:** Dust may cause skin, eye, nose, throat, or respiratory irritation. Avoid dust inhalation and exposure to dust. If dusty, wear a NIOSH/MSHA-approved dust respirator. Use proper ventilation to reduce dust exposure. Cement is strongly alkaline and can be corrosive to eyes, skin and respiratory tract. Wear eye and skin protection. If eye contact occurs, immediately flush thoroughly with water for 15 minutes and get medical attention. Do not ingest. If ingested and any discomfort occurs, call physician.

## Technical data according to EN 13813

Release of corrosive substances	CT
Compressive Strength Class	C 30
Flexural Strength Class	F 6
Abrasion Resistance	RWA 100
Fire class	A 1
<b>Grain size</b>	< 1 mm
<b>Other technical data</b>	
Tensile Bond Strength mean value	290 psi
Flexural Strength mean value	1015 psi (ASTM C-348)
Compressive Strength mean value (28 days)	5800 psi (ASTM C-109 modified)
Shrinkage	0.03-0.05 % (ASTM D-4060)
Wet state pH	Approx 11
Workable	15-20 min.
Ideal slump range	max 5 5/16" (135 mm)
Water ratio/44 lbs (20 kg)	Max 3.8 Quarts (3,6 L)
Dry weight by volume	107 LBS/ft
Wet weight by volume	126 LBS/ft
Acceptable substrates	Concrete, stone, and ceramic
Walkable surface	1 to 3 hours
Thickness	1/4" to 1 1/4" (5-30 mm)
Coverage	Approx 25 sq.ft. per 44 lbs @ 1/4"

### Breathable penetrating and water-borne sealers can be applied after 16 hours.

Application of coatings	2-5 days
Resistant to water damage	Yes
Surface tensile strength mean value (base-finished surface with a load)	216 psi

### Above information based on 72 degrees Fahrenheit temperature.

Please note all flooring materials have different permeability rates of moisture. Please consult Combimix prior to installing products in moisture condition out of flooring manufacturer's specifications. Combimix will make specific recommendations based on flooring type, adhesives used and environmental conditions.

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[www.combimix.com](http://www.combimix.com)  
info@combimix.com

**Combimix AB**  
Verkstadsvägen 6  
746 40 Bålsta  
**Phone.** +46 171-46 65 90  
**Fax.** +46 171-46 65 99  
[www.combimix.se](http://www.combimix.se)

**Combimix Inc.**  
150 N. Michigan Avenue  
Suite 1950  
Chicago, IL 60601  
**Phone.** 312-419-9495  
**Fax.** 312-275-7720



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