

W-FLOOR LPI 300

PRODUCT DESCRIPTION

Three-component thixotropic epoxy mortar for edge reinforcement, formulated with mineral fillers and high-performance specialty additives to provide a high-strength system for reinforcing the edges of concrete floor joints.

Its excellent mechanical performance makes it suitable for applications in areas subject to heavy traffic and frequent impact.

RECOMMENDED USE

It is recommended for a wide range of applications requiring edge reinforcement, localized repairs, and the formation of coved bases with rapid return to service.

Joint edge reinforcement.
Areas subject to impact.
Repair of joint edges damaged by spalling.
Areas exposed to severe impact.
Localized repairs.

The recommendation for the use of this product shall only be made by the WEG Technical Department.

CERTIFICATIONS AND APPROVALS

When supplied to comply with the ROHS Directive (Restriction of Certain Hazardous Substances), this product includes the letter R in its nomenclature description.

PACKAGING

Component A	3.6 L package containing 2.19 kg.
Component B	3.6 L package containing 1.63 kg.
Component C	Packaging containing 20 kg

CHARACTERISTICS

Color	Gray (mortar)
Volume Solids	98 ± 2% (ISO 3233)
Shelf Life	24 months
Dry Film Thickness	5,000 µm - 50,000 µm
Dry Heat Resistance	Maximum temperature 120 °C. The product maintains its chemical properties up to a temperature of 120 °C, but from 60°C, color and gloss variations in the paint may occur.
Theoretical Coverage	Consumption (kg/m): $(P \text{ (cm)} \times W \text{ (cm)} \times d \text{ (g/cm}^3)) / 10 + 30\%$ P = Depth W = Width d = Density Example: Depth = 2 cm and Width = 4 cm Consumption = 2.18 kg/m Note: This calculation considers a 30% material loss. The actual loss factor should be evaluated together with the application team. Variations in thickness caused by substrate unevenness, workmanship, or other factors may occur during application.

DRYING

Drying

	5 °C	15 °C	25 °C	35 °C
Cutting time	12 hours	6 hours	4 hours	2 hours

SURFACE PREPARATION

Standard Surface Preparation

The performance of this product is related to the degree of surface preparation. In case of doubts, for more information, consult WEG's Technical Department.

Concrete Surfaces

The surface shall be clean and free from grease, oil, loose particles, or chemicals that may impair adhesion. The substrate shall be rough, free from contamination, and surface dry.

Using suitable equipment (Clipper saw), cut the joint to the width and depth specified in the project. The groove shall be opened using a light demolition hammer or a chisel, taking care not to chip the joint walls or edges and not to exceed the specified depth, thereby avoiding excessive material consumption.

Thoroughly clean the joint using a steel wire brush, followed by a vacuum cleaner or air blower. The joint shall be completely free of dust, debris, or any organic or inorganic contaminants that may interfere with proper anchorage. For improved cleaning, ethanol may also be applied using a brush.

Before application, masking tape should be applied along both sides of the joint to prevent staining of the floor or coating. Proper adhesion to the joint walls depends directly on the quality of surface cleaning.

Do not apply any coating or paint until the concrete (or cement-sand screed) has fully cured for at least 28 days under normal climatic conditions.

Before application, the concrete shall have a maximum residual moisture content of 6%.

Do not apply coatings over concrete substrates containing curing accelerators unless representative tests confirm satisfactory adhesion of the coating system.

For additional information, refer to the Concrete Surface Preparation and Application Manual.

Do not apply coatings over floors contaminated with oils or aggressive chemicals. The substrate shall be thoroughly cleaned. Application over contaminated surfaces may result in coating delamination or other defects.

The product shall be applied in accordance with the recommendations of the WEG Technical Department to ensure the expected performance. Surface condition, roughness, contamination level, and other substrate characteristics shall be evaluated before application.#

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The performance of this product depends directly on the degree of surface preparation. The surface shall be clean, sound, completely dry, free from contaminants, and have sufficient roughness to ensure proper adhesion.

Check the concrete for moisture in accordance with ASTM D 4263.

APPLICATION PREPARATION

Mixing	Add Part A of the system to a suitable container and then add the entire contents of Part B. Mix until the product is completely homogeneous.
	With the mixer running, gradually add Part C (aggregate) and continue mixing until a uniform color is obtained.
	For further information, consult the Technical Department.
Mixing Ratio	By weight: 1 A x 0.74 B x 9.13 C.
Thinner	Not applicable.
Dilution	Ready to use.
Notes	No dilution is required. Product ready to use. If necessary, consult the WEG Technical Department.
Pot Life	45 min
	The shelf life of the mixture is reduced as the ambient temperature increases.

The pot-life test of the mixture is carried out according to ABNT NBR 15742; however, different volumes of paint prepared at once, combined with varying ambient and paint temperatures, will affect the mixture's shelf life, potentially resulting in outcomes different from those stated in this technical bulletin.

APPLICATION METHODS

Squeegee, Spatula and Trowel

The mortar shall be placed into the joint until it is completely filled.

Compaction shall be performed manually using a masonry trowel or putty knife, applying pressure to the mortar first along the joint edges and then over the entire surface.

The final finish shall leave the mortar a few millimeters above the floor surface.

Cleaning of the equipments:

Not applicable.

Notes

The data presented serves as a guide and similar equipment may be used.

Do not allow catalyzed product to remain in contact with application equipment, as at temperatures above the indicated "pot life", the paint will show variation in flow and will harden, making cleaning difficult.

Before application, ensure that the equipment and respective components are clean and in optimal condition.

Clean all equipment immediately after use.

APPLICATION PERFORMANCE

To improve adhesion and compensate for minor application defects, the use of W-POXI VARNISH HSS 301 Sealer may be recommended, applying W-FLOOR LPI over the primer while it is still in the gel stage.

Note: This procedure is optional.

Do not apply the product after its pot life has expired.

For optimum application properties, the product temperature should be between 18 °C and 30 °C (64 °F to 86 °F) before mixing and application.

Before application, check the weather conditions. Rain or drizzle should not be expected.

The substrate temperature shall be at least 3 °C (5 °F) above the dew point, and the relative humidity shall not exceed 85%. Adverse conditions may result in color variations and other changes. Consult the WEG Technical Department.

Application is recommended only when the substrate temperature is at least 3 °C (5 °F) above the dew point.

Substrate temperature, environmental conditions during application and curing, and the applied film thickness may affect the drying time.

Epoxy systems may require longer curing times at low temperatures. For applications below 10 °C (50 °F), consult the WEG Technical Department.

Epoxy resin-based concrete repair primers provide excellent mechanical properties but have limited resistance to prolonged UV exposure. When exposed to weathering, the coating may gradually lose gloss (chalking) and undergo color changes without affecting its anticorrosive protection.

The coating system may require two or more coats to achieve a uniform dry film thickness and the expected performance.

Product coverage depends on the condition of the substrate. The theoretical consumption shall consider the surface condition, and the amount applied per unit area shall be monitored. Refer to the Application Manual for further information.

Minor variations in color, appearance, and gloss (more noticeable in dark colors), delayed curing, and reduced performance may occur under high humidity, rainy weather, low temperatures, or when drying outdoors.

Under adverse climatic conditions, including high relative humidity, rain, drizzle, low temperatures,

or excessively high temperatures, changes in color and other product characteristics may occur. Consult the WEG Technical Department for further information.

SAFETY PRECAUTIONS

Product developed for industrial use intended for handling by qualified professionals. Carefully read all information contained in the SDS of this product, available at: www.weg.net.
Store in a covered and well-ventilated place. Keep the container tightly closed and away from sources of heat or ignition.
Use only in well-ventilated areas, avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.
Do not inhale mists/vapors/aerosols generated during handling and/or application. Use protective gloves/protective clothing/eye protection/face protection.
Empty containers and materials with paint residues must be disposed of according to current legislation. Take care of the environment.

NOTE

The information contained in this technical bulletin is based on the experience and knowledge acquired in the field by WEG's technical team.
In the event of using the product without prior consultation with WEG regarding its suitability for the purpose for which the customer intends to use it, the customer acknowledges that the use will be at their own exclusive responsibility, and WEG is not liable for the behavior, safety, suitability, or durability of the product.
Some information mentioned in this bulletin is only an estimate and may vary due to factors beyond the manufacturer's control. Therefore, WEG does not guarantee and assumes no responsibility for performance, efficiency, or any material or personal damages resulting from the incorrect use of the products in question or from the information contained in this Technical Bulletin.
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