Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

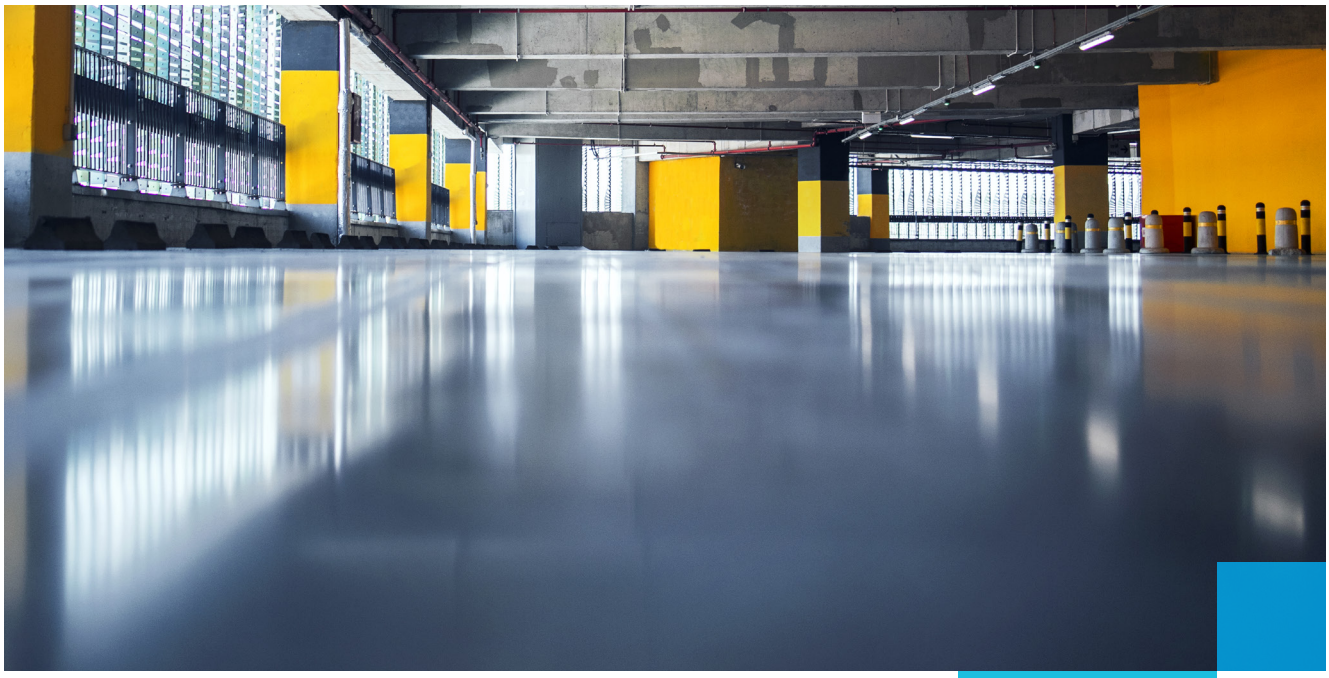
Coatings

FLOOR SOLUTIONS

Complete coating solutions for industrial and commercial floors, combining **productivity** and **aesthetics**

Driving efficiency and sustainability

FLOOR Solutions



Coatings for floors for the most varied uses, with light, medium, moderate and heavy traffic.

In addition to protection for tools, equipment and industrial structures, **WEG Coatings** also offers full solutions to paint industrial floors. It is proved that proper care with the workplace floor directly contributes to increasing productivity. Floors in poor conditions, besides the bad aspect, end up jeopardizing the operations, causing accidents and delays. In addition to the protection, the coating improves the environment aesthetics, making the work environment more pleasant.

CHECK IT OUT

APPLICATION OF SELF-LEVELLING FLOOR COATING IN THE CHAPECÓ SHOPPING MALL

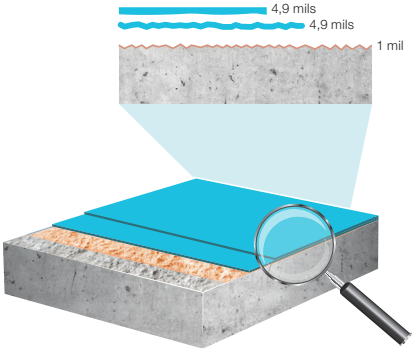
EPOXI FLOOR LINE

Epoxy coating schemes include three ways of applying paints, including light, moderate or heavy traffic, and are also related to the level of preparation requirements for the surface to which they will be applied. In some cases, the use of Mix 30 or Mix 80 aggregate is recommended to increase the resistance of the coating scheme.

Light to moderate traffic

Recommended for new or old floors (previously painted – aged coating), in indoor or outdoor[1] applications where there is light traffic (pedestrians and light vehicles).

PLAN 01	PRODUCT	THICKNESS	FUNCTION
1ª coat	W-POXI CVS 301	1 mil	Sealer
2ª coat	W-POXI DFA 301	4,9 mils	Primer
3ª coat	W-POXI DFA 301	4,9 mils	Topcoat



W-POXI CVS 301

The bicomponent varnish, **W-POXI CVS 301**, is a conventional epoxy sealing varnish that adheres to different surfaces. It can reduce the excessive or irregular absorption of the topcoat when applied over porous substrates. It is designed to seal the surface and provide a good adhesion base coat for concrete, cement, asbestos, masonry and wood surfaces, which can be found in floors, concrete tanks, walls, structural columns, among others. In order to obtain a smoother and glossier surface, it is recommended to apply two coats or more[2].

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	33 ± 2%	537.8 ft²/gal	Touch: 2 hours Handling: 6 hours Final: 168 hours	Conventional

W-POXI DFA 301

The **W-POXI DFA 301** is a high build, bicomponent, polyamine epoxy topcoat of the LOW VOC (low organic compound) material class. It is recommended to paint concrete floors in environments where traffic is light (pedestrians) to moderate (light vehicles). In addition, other advantages of this coating are the variety of colors and the good coverage, enabling you to find the perfect look for the environment to be transformed. It can be applied indoors or outdoors[1], whether closed or not. Applications include painting the concrete of laboratories, hospitals, garages and other places where traffic is from light to medium such as in industries in general[3].

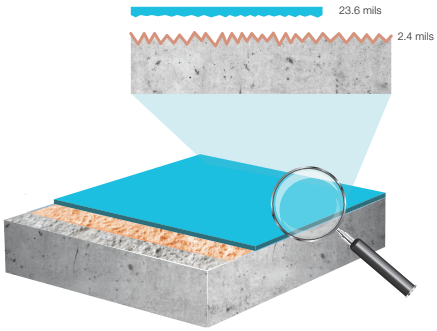
COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
White and Colors (on request)	88 ± 2%	285.2 ft²/gal	Touch: 12 hours Handling: 24 hours Final: 96 hours	Deck Finishing

Notes: 1) For outdoor applications, we recommend to apply the last coat with W-THANE HBA 501, for color and gloss retention.
2) The coverage of this product is related to the state (flaws) of the surface to be repaired. The calculation for the quantity of coating is done theoretically, and it will directly depend on the state of the surface. In order to reach the expected coverage, you must control the quantity of coating to be applied by the area to be coated. For further information on how to proceed, refer to the Basic Application Manual.
3) For coating systems with higher efficiency, use WEG sealers and repair primers of the floor line.

Moderate traffic

Recommended for new or old floors, in indoor or outdoor[4] applications where there is moderate traffic (light vehicles).

PLAN 01	PRODUCT	THICKNESS	FUNCTION
1ª coat	W-POXI HSS 301	2.4 mils	Sealer
2ª coat	W-POXI HBA 301 add Mix Aggregate 80[5]	23.6 mils	Primer



W-POXI HSS 301

The high performance, bicomponent, epoxy-based varnish, **W-POXI HSS 301**is recommended as surface impregnation and sealing varnish, in addition to ensuring a good adhesion base coat for the system used. This high solids, solvent-free product is supplied as a glossy topcoat. Another advantage of this varnish is the reduction of the excessive or irregular absorption of the topcoat when applied over porous substrates. It is used on concrete, cement, asbestos, masonry, tiles and wood surfaces, which can be found in floors, concrete tanks, walls, structural columns, among others. In order to obtain a smoother and glossier surface, it is recommended to apply two coats or more[2].

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	Solvent-free	725.3 ft²/gal	Touch: 3 hours Handling: 6 hours Final: 168 hours	High solids

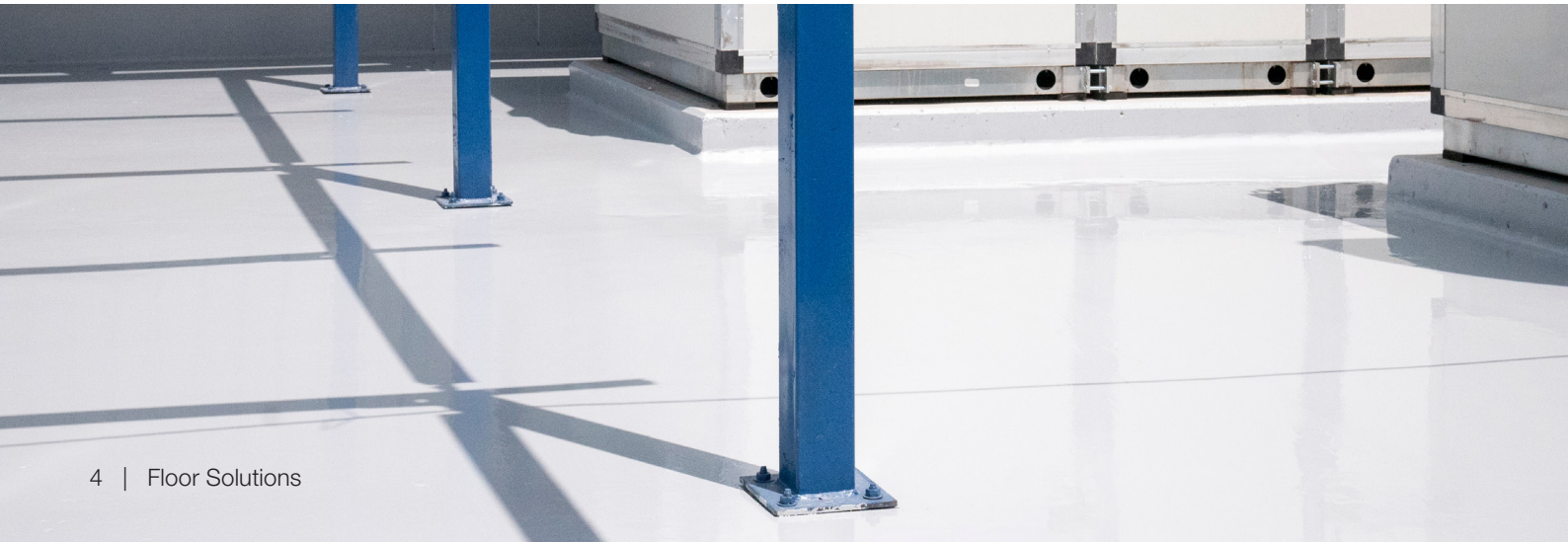
W-POXI HBA 301

The **W-POXI HBA 301** is a high performance, high build, self-leveling topcoat thanks to its high mechanical, abrasive and chemical resistance. Its protective high coverage film beautifies the environment with its high gloss, facilitating its cleaning. **W-POXI HBA 301** line is also available in the WEG tintometric system. Applications include **places of medium and heavy traffic** to protect industrial floors, such as workshops, chemical and petrochemical industries, sugar mills, paper plants, alcohol distilleries, etc.[3]

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Ral, Munsell or according to customer standard	98 ± 2%	99.8 ft²/gal	Touch: 9 hours Handling: 6 hours Final: 168 hours	High thickness

Notes: 4) For outdoor applications, we recommend to apply the last coat with W-THANE HBA 501, for color and gloss retention. In case an anti-slip topcoat is necessary for ramps, stairs, escape routes, etc, WEG Coatings offers the W-POXI ADA 314 or W-POXI BLOCK ADA 404 which can be used as final coat of the coating system.

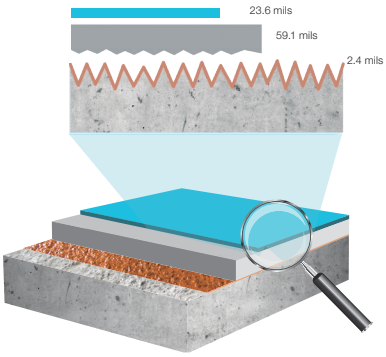
5) The quantity and need for the aggregate must be evaluated by WEG's technical department.



Heavy traffic

Recommended for new or old floors (previously painted – aged coating), in indoor or outdoor applications[1] where there is heavy traffic (trucks, industries in general).

PLAN 01	PRODUCT	THICKNESS	FUNCTION
1ª coat	W-POXI HSS 301	2.4 mils	Sealer
2ª coat	W-POXI PRP 301 add Mix Aggregate 30[5]	59.1 mils	Intermediate
3ª coat	W-POXI HBA 301 add Mix Aggregate 80[5]	23.6 mils	Topcoat



W-POXI PRP 301

W-POXI PRP 301 is a epoxy-polyamine product, bicomponent, solvent-free composition with the addition of silica. Recommended to fix small flaws on the floor, such as cracks, cavities, holes and places damaged by mechanical actions. Allows continuity of coating services after 24 hours. Applications include **heavy traffic locations**, for small repairs to floors in food industries, hospitals, laboratories, cellulose and paper factories, chemical and petrochemical industries, sugar plants, alcohol distilleries and other industrial floors.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	98 ± 2%	53.4 ft²/gal	Touch: 5 hours Handling: 12 hours Final: 168 hours	Repair primer

W-POXI PRR 301

W-POXI PRR 301 is a epoxy-polyamine product, bicomponent, with the addition of silica. Mortar with a fluid consistency, without solvents. It fixes small flaws on the floor, such as cracks, cavities, holes and places damaged by mechanical actions. **It allows the release of the area in just 3 hour after the application**. Recommended for small repairs to floors in food industries, hospitals, laboratories, cellulose and paper factories, chemical and petrochemical industries, sugar plants, alcohol distilleries and other industrial floors.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	98 ± 2%	53.4 ft²/gal	Touch: 1 hour Handling: 3 hours Final: 168 hours	Repair primer

W-POXI SRS 301

Solvent-free two-component sealing varnish for quick area release (under 3 hours to dry). Promotes adhesion to concrete and asbestos cement surfaces, also reduces excessive absorption or irregularities in the finish when applied to porous substrates. Indicated as an impregnating and surface sealing varnish. Offers a base for adhesion to the specific painting system. It is normally used for painting floors and concrete tanks with moisture, not being used on ceramic surfaces.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	98 ± 2%	725.3 ft²/gal	Touch: 1 hour Handling: 3 hours Final: 168 hours	Fast drying

ADHESIVE VARNISH

W-POXI HSV 301 COLORLESS

The colorless epoxy varnish **W-POXI HSV 301** Colorless is self-leveling and solvent-free, has low VOC content and ensures smooth and uniform high gloss, which facilitates cleaning the environment. The varnish was developed to be adhesive and applied on the floor, providing abrasion, mechanical and chemical resistance.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	99 ± 1%	61.1 ft²/gal	Touch: 2 hours Handling: 24 hours Final: 168 hours	High solids

POLYURETHANE TOPCOAT

W-THANE DRV 561

W-THANE DRV 561 is a glossy bicomponent aliphatic polyurethane-acrylic polyester varnish that should be used in the coating system to ensure high strength, also available in the matte finish with product **W-THANE DRV 564**. After curing, the varnish forms a colorless glossy film that presents high performance and hardness. It is recommended for places that need lasting aesthetics, in addition to a great yellowing and weathering resistance. Its finish prevents the sticking of dust on its surface, making cleaning easier. Used to ensure greater brightness in a great variety of applications in industrial floors, concrete structures, parking lots, warehouses, gyms, utility companies, among others, which makes this varnish an excellent topcoat choice.

- ✔ It helps preserve the appearance for a longer period;
- ✔ High scratch resistance;
- ✔ Easy cleaning and maintenance;
- ✔ Excellent resistance to ultraviolet (UV) rays.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	55 ± 2%	639.7 ft²/gal	Touch: 5 hours Handling: 24 hours Final: 168 hours	High strength

W-THANE HBA 501

High solids aliphatic acrylic polyurethane finishing coating. It has a low content of volatile organic compounds (Low VOC). Provides anti-corrosive and waterproofing protection, with great chemical resistance and weathering resistance. Also, it is recommended for last coat of external areas to retain color and shine.

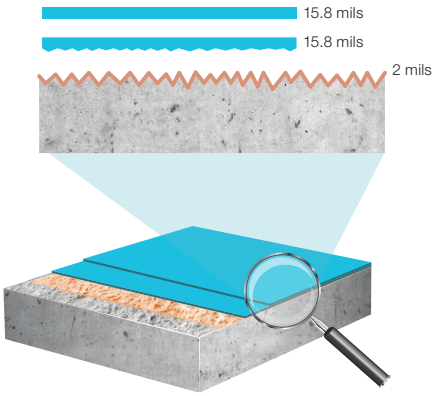
COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Ral, Munsell or according to customer standard	68 ± 2%	277.1 ft²/gal	Touch: 6 hours Handling: 10 hours Final: 168 hours	High thickness

FLOOR LINE FOR COLD ROOMS

The environments of cold rooms, walk-in freezers are different from any other environments. Regular exposure to thermal cycles during cleaning and sanitation procedures and severe condensation are some of the specific challenges these environments face and thus require high performance coatings.

This type of application can cure at temperatures as low as 23° F [6], facilitating the application, as it is not necessary to turn off the equipment. In addition, they add excellent resistance to impact and chemical attacks. The floor for cold rooms is widely used in supermarkets, hospitals, and the food, beverage, dairy and pharmaceutical industries, among others.

- ✔ Resistance to negative temperatures until 23º F;
- ✔ Resistance to periodic cycles of frosting and defrosting;
- ✔ Impact resistance;
- ✔ Traffic resistance.



PLAN 01	PRODUCT	THICKNESS	FUNCTION
1ª coat	W-POLI HSS 461	2 mils	Sealer
2ª coat	W-POLI HPA 461	15.8 mils	Topcoat
3ª coat	W-POLI HPA 461	15.8 mils	Topcoat

W-POLI HSS 461

For low cure temperatures (23° F), WEG developed the bicomponent, solvent-free, aliphatic functional amine resin-based varnish sealer W-POLI HSS 461. It dries fast, besides being colorless and high solids. This product offers excellent adhesion to concrete and asbestos cement surfaces, reducing the excessive or irregular absorption of the topcoat when applied over porous substrates.[7]

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	98 ± 2%	725.3 ft²/gal	Touch: 1 hour Handling: 3 hours Final: 168 hours	High solids

W-POLI HPA 461

Due to the extreme working conditions in cold rooms, the floor requires a topcoat that protects concrete from low temperatures. Based on aliphatic functional amine, the **W-POLI HPA 461** is a bicomponent, solvent-free topcoat applicable in a high build single coat that cures at temperatures as low as 23° F. In addition to resisting to the thermal shock caused by rapid temperature changes, it is a high gloss, high solids and high UV resistance coating. It can be used to protect floors of cold rooms from food industries, hospitals, laboratories and other environments that operate at low temperatures.[7]

COLOR	SOLIDS BY VOLUME	THEORETICAL CO-VERAGE	DRYING	FEATURE
Branco e Colores (sob consulta)	98 ± 2%	100.6 ft²/gal	Touch: 10 minutos Handling: 3 hours Final: 168 hours	Alta performance

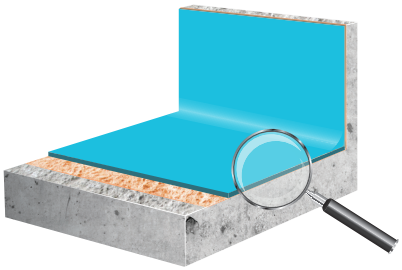
Notes: 6) Once the floor coating is completely cured, it can be subjected to even lower negative temperatures. For further information, contact WEG Technical Department.
7) The W-POLI 461 line, with its Sealer and Topcoat, can also be used for other environments, other than cold rooms, such as external environments, because its technology has characteristics of great resistance to ultraviolet rays.

NOBAC URETHANE FLOOR LINE

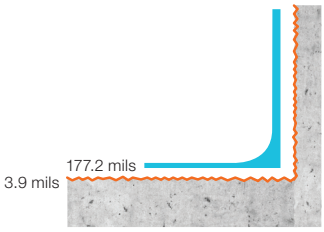
WEG understands the specific challenges of the various food industries, and we are responsive to providing innovative solutions for maximum floor protection, observing the concerns about contamination, cleaning and reduction of long-term maintenance costs. The use of urethane floor coating has been recommended in a great variety of industrial applications, especially in the food and beverage industry, due to its excellent performance and resistance. It has great resistance to abrasion, impact and chemicals. In addition to the highlights above, the urethane floor coating has highly effective antimicrobial agents, so bacteria and fungi do not proliferate on the floor. With self-leveling properties, the urethane coating is matte and also an extremely hygienic material, since cleaning it is easy and fast, as it does not have porosities that absorb dirt, which makes such task more complicated.

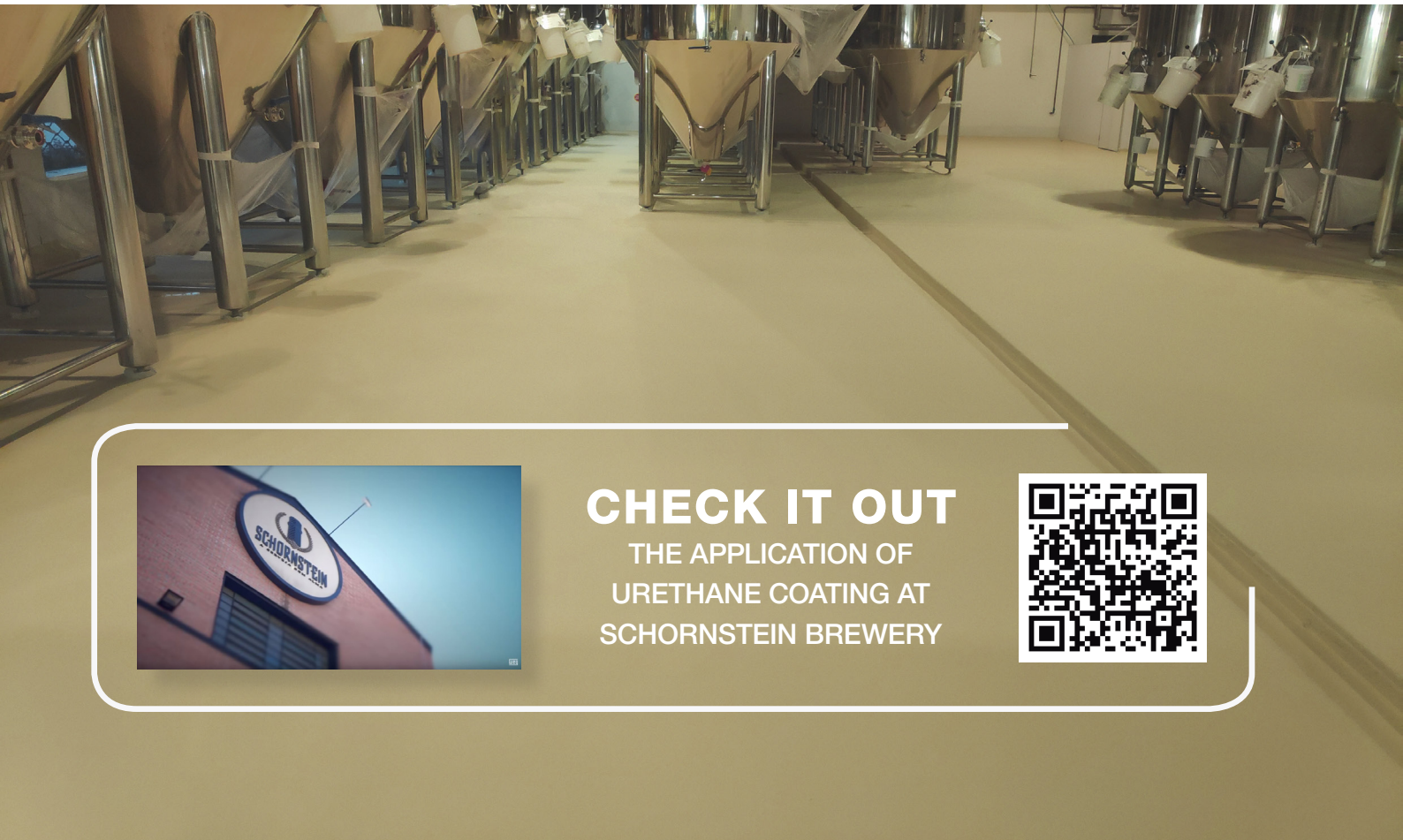
- Resistance to traffic;
- Resistance to impacts generated by the handling of boxes and pallets;
- Low porosity, easy cleaning and sanitizing;
- Reduction of critical contamination spots, such as joints and sharp edges;
- Chemical resistance to organic and inorganic acids;
- Thermal resistance.

FLOOR	PRODUCT	THICKNESS	FUNCTION
1ª coat	W-POLI HSS 455	3.9 mils	Sealer
2ª coat	W-POLI ANA 455 NOBAC	177.2 mils	Topcoat



BASEBOARD	PRODUCT	THICKNESS	FUNCTION
1ª coat	W-POLI HSS 455	15.8 mils	Sealer
2ª coat	W-POLI RPA 455 NOBAC	-	Baseboard





CHECK IT OUT

THE APPLICATION OF URETHANE COATING AT SCHORNSTEIN BREWERY

W-POLI HSS 455

The **W-POLI HSS 455** is a two-component urethane resin-based coating developed for primings and as an adhesion bridge for the urethane system. It is used in coating plans for floors with excellent resistance to abrasion, also provides excellent mechanical, chemical, physical and thermal resistance. Developed to seal and promote adhesion of baseboards, floors, walls, stairs, channels and industrial floors. Suitable for indoor and outdoor use.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Colorless	98 ± 2%	0.0215 lb/ft²	Final: 24 hours	High solids

W-POLI PRR 455 NOBAC

W-POLI PRR 455 NOBAC is a three-component urethane **mortar coating** for application in a single coat, without solvents, with antimicrobial function, LOW VOC, for internal environments. Composing coating schemes for floors with excellent resistance to abrasion, mechanical, chemical, physical and thermal resistance. In addition, it will ensure the correct adhesion of the topcoats of the same type for its application in the food and beverage industries.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Grey and other colors (on request)	95 ± 1%	1.843 lb/ft²	Handling: 1 hour	Repair primer

W-POLI ANA 455 NOBAC

The **W-POLI ANA 455 NOBAC** is a **self-leveling** high performance three-component, predosed topcoat ready for mixing and application. The produced system is a high solids, solvent-free, low VOC and antimicrobial application that inhibits the proliferation of microorganisms, according to ASTM G-21. Ideal for floors in the food and beverage industries, for instance, that need excellent abrasion, chemical, mechanical, physical and thermal resistance. When cured, the coating produces a smooth matte surface with the thickness ranging from 0,24 to 0,24 pols[8].

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Yellow, Grey	95 ± 1%	1.7140 lb/ft²	Handling: 6 hours Final: 168 hours	Self-leveling

W-POLI RPA 455 NOBAC

The **W-POLI RPA 455 NOBAC** is a high performance, self-leveling, troweled urethane-based mortar coating. Developed for industrial baseboards, it is a three-component predosed composite, ready for mixing and application. In contains bactericidal agents that prevent the proliferation of microorganisms on the surface of the coating, according to the ASTM G-21 Standard. When applied, the coating produces a smooth matte finish, besides providing easy cleaning.

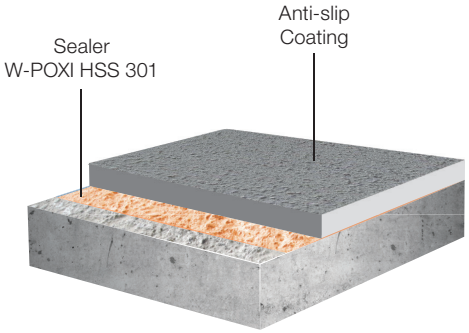
COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Yellow, Grey	95 ± 2%	1.843 lb/ft²	Handling: 1 hour	Extended repainting

Notes: 8) To check information regarding the system resistance, refer to the Data Sheet or contact WEG Technical Department.

ANTI-SLIP FLOOR LINE

The anti-slip floor line has a finish developed for application on industrial floors (carbon steel or concrete), stairs, walkways, ramps, escape routes, heliports and boat decks in sheltered environments free from sunlight and weather.

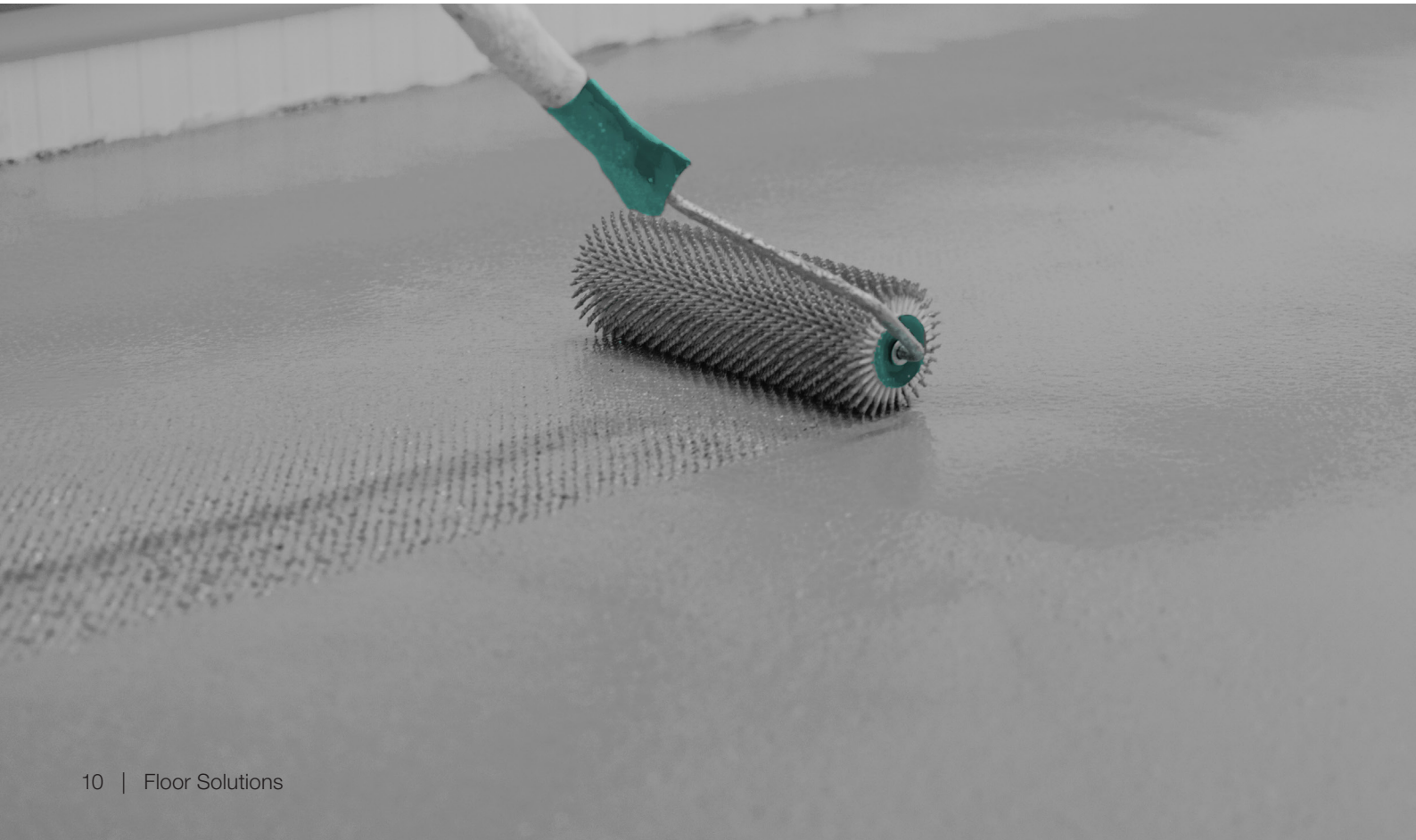
Indicated for environments of high aggressiveness, humidity and salty air as it provides greater safety for pedestrians and even when moving vehicles.



W-POXI ADA 301

Anti-slip epoxy coating with polyamine, solvent-free, with low VOC content, which can be applied indoors. It is a high-gloss coating, applicable in high thicknesses with a single coat. Composing coating schemes for floors with excellent resistance to abrasion, mechanical resistance and chemical resistance.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Ral, Munsell or according to customer standard	98 ± 2%	99.8 ft²/gal	Touch: 5 hours Handling: 12 hours Final: 168 hours	Anti-slip



W-POXI ADA 314

Bicomponent, polyamide, epoxy coating with anti-slip function. High hardness, resistant to water, oil, salts. Provides a highly textured and therefore non-slip film. Used on industrial floors, stairs, walkways, ramps, heliports and boat decks. Can be used on carbon steel or concrete.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Ral, Munsell or according to customer standard	63 ± 2%	53.8 ft²/gal	Touch: 4 hours Handling: 8 hours Final: 168 hours	Anti-slip

W-POXI BLOCK ADA 404

High-thickness, high-solids, bicomponent, epoxy primer Novolac that offers high hardness, water, oil and salt resistance, providing a high-texture and consequent anti-slip film. Presenting extremely low content of solvent (LOW VOC) and great abrasion and impact resistance, it also provides unmatched anticorrosive protection with excellent surface hardness impermeability. The product complies with Petrobras Standard N 1374.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Ral, Munsell or according to customer standard	95 ± 1%	77.4 ft²/gal	Touch: 6 hours Handling: 16 hours Final: 168 hours	Anti-slip

W-THANE ADA 502

Two-component aliphatic acrylic polyurethane finishing coating, with non-slip function and high solids by volume, which provides a highly textured and consequently non-slip film. The product promotes a highly chemically resistant film, which makes up a great anti-corrosive protection system, high waterproofing power and weathering resistance. Its recommendation, in addition to the traditional use on industrial floors, in the offshore segment, can be used on decks, oil and natural gas exploration platforms, etc. It is particularly suitable for environments where resistance to abrasion is an indispensable requirement.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
Ral, Munsell or according to customer standard	74 ± 2%	60.3 ft²/gal	Touch: 4 hours Handling: 8 hours Final: 240 hours	Anti-slip

W-POLI ADA 462

Two-component, aliphatic, functional amine-based coating with a non-slip, solvent-free function, which can be applied indoors or outdoors, providing a highly textured and therefore non-slip film. Composes coating plans for floors with excellent chemical resistance and color and gloss retention. Applicable in high thicknesses in a single coat, the product was developed for fast curing and protection of industrial floors.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
White and other colors (on request)	95 ± 2%	1.84 lb/ft²	Touch: 40 minutes Handling: 3 hours Final: 168 hours	Anti-slip

ROAD DEMARCATION

Coatings for banners ou signs on highways, roads, parking lots, speed bumps, or any other space that requires long lasting, highly visible signage. The products can be applied on asphalt and cement floors.

W-VIÁRIA CVP 605

The conventional one-component acrylic resin-based coating guarantees excellent resistance to abrasion, easy application and quick drying for the demands of road marking and signage, also available in the tinting system.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
White, Yellow, Black and other colors (on request)	48 ± 2%	65,2 ft²/gal	No Pick-Up Time: 20 minutes	Conventional

W-VIÁRIA HPP 605

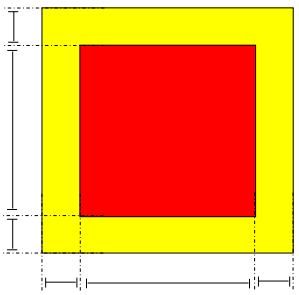
It is the result of intensive research related to the road signaling segment, undergoing rigorous quality tests in order to meet the highest traffic requirements. Its excellent resistance to abrasion, fast drying, adequate film flexibility and high weather resistance guarantee its application for urban streets, highways, parking lots. This paint complies with ABNT NBR 11862/92 standards.

COLOR	SOLIDS BY VOLUME	THEORETICAL COVERAGE	DRYING	FEATURE
White, Yellow	48 ± 2%	65,2 ft²/gal	No Pick-Up Time: 20 minutes	High performance

COMPLEMENTARY PRODUCTS

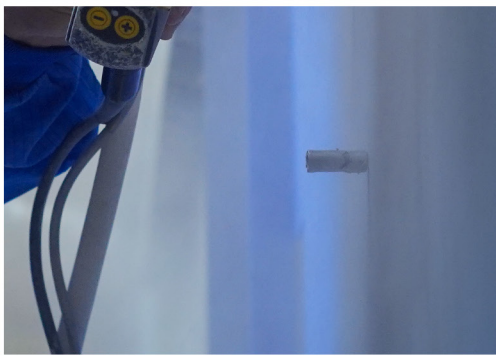
The internal demarcations of floors in industrial areas are extremely important for quality and safety. To demarcate pedestrian crossings, production lines, fire fighting areas, among others, WEG recommends the use of the **W-POXI DFA 301** line. This product line, in addition to being easy to apply with a roller and brush, has several colors in a tinting system – providing flexibility and agility in the development of your company's colors.

To demarcate the location of fire extinguishers and guidance strips, a large area of the floor below the fire extinguisher must be painted red, which cannot be obstructed. This area must be at least 1x1m. According to NBR 7195 - Munsell colors red 5R4/14 and yellow 5Y8/12.



COURSES AND TRAININGS

- Liquid Industrial Coating (DT-12)
- Industrial Powder Coating (DT-13)
- Automotive Refinish (DT-14)
- Colorimetry (DT-15)
- Floor Coating (DT-17)



WEG offers free and paid courses and training, in face-to-face or distance learning formats, offering theoretical and practical knowledge* for the preparation and applications of its products.

** Some of the courses available are exclusively theoretical.*

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BASIC APPLICATION MANUAL

1. General Painting Recommendations:

1.1. Environment conditions, surface cleaning, interval between coats: observe all the characteristics described in the technical bulletin of the coatings to be applied.
1.2. No coating can be applied if the ambient temperature is expected to drop down to 0°C before the coating is cured.
1.3. No coating application can be carried out during rainy, foggy or misty weather, or when the relative humidity is above 85% (eighty five percent), nor when such level is expected to be reached, under the risk of compromising the adhesion between coats or final adhesion of the applied coat.
1.4. Each coat must have a uniform thickness, free of flaws, such as porosity, wrinkling, blistering, craters, and impregnation of other visible contaminants.
1.5. The concrete surfaces must receive proper treatment to reach conditions that provide a good performance for the coating system.

2. General Recommendations of the Floor:

2.1. In order to enable the application of the protection system, the surface must be clean, solid, free of any kind of contaminants, finally dry and rough enough to allow adhesion.
2.2. The floor must present neutral (7) or slightly alkaline (10) pH.
2.3. No coating of any kind can be applied over the floor or subfloor of concrete with cure accelerator additive, unless representative tests indicate the possibility of satisfactory adhesion of the coating system to be applied.
2.4. No coating of any kind can be applied without the concrete (or subfloor of mortar of cement and sand) being finally dry and cured for at least 28 days under normal weather conditions.
2.5. No coatings can be applied over floors contaminated with oil or aggressive products. The floor must be effectively cleaned. In case the application is done over residues of such contaminants, the film of the coat may come off, and other flaws and defects may occur.
2.6. The concrete execution project must provide previous sealing so as to prevent the rising of humidity or of the water table through the concrete capillary otherwise, blistering may occur and the coating may come off.
2.7. Check the presence of humidity in the concrete as per standard ASTM D 4263, briefly described below:

2.7.1. Affix a plastic sheet of 18 x 18 inches (457 mm x 457 mm) with Silver Tape closely fit to the concrete, making sure all the edges are well sealed.
2.7.2. Leave the plastic sheet sealed to the concrete for at least 16 hours.
2.7.3. After this period (16– 24 h), remove the plastic sheet, and visually inspect the part in contact with the concrete for the presence of humidity.
2.7.4. Sample one test area every 46 m² or proportion of that.
2.7.5. Do not perform any coating in case residual humidity is present on the plastic sheets of the sample.

3. General Recommendations for coating over aged coatings:

3.1. An analysis regarding the compatibility of the aged coating with the system to be applied must be carried out. In case of incompatibility, the coating cannot be performed unless all the old coating is previously removed. In case of compatibility, the floor must be sandpapered (to remove the gloss and promote adhesion) and cleaned.
3.2. In case of peeling of the aged coating (even if the systems are compatible), the aged coating must be scraped or removed. For such scraping, tools like steel scrapers, milling cutters and grinders with grit g-16 – g-24 must be used.
3.3. After the scraping, sandpapering or any other kind of treatment, the surface must be free of contaminants and residues.
3.4. Contact the Technical Department of WEG Coatings to assess the need to apply sealer.

4. Execution of the Coating (basic methodology recommended):

4.1. Initial degrease:

4.1.1. Wash the entire surface with high-pressure, clean water – preferably hot.

4.1.2. Evenly spread all over the areas a solution of biodegradable detergent accolording to directions of the detergent manufacturer;
4.1.3. Vigorously brush with industrial floor polishers and/or brooms.
4.1.4. Leave the solution on the floor for approximately ten minutes;
4.1.5. ERinse it with abundant, high-pressure, clean water – preferably hot – and leave it to dry naturally.
4.1.6. Repeat this process as many times as necessary. As an optional procedure, the floor can be milled in the spots with greater contamination by common oil and acids, and then perform the degrease process described above.
4.1.7. Important Note: To start the application of the coating system described below, the floor must be completely dry – free of humidity. In order to accomplish that, blowtorches can be

used, always checking with the plastic sheet or aluminum foil test (ASTM D 4263). Before beginning the painting, the concrete must present residual humidity of at most 6%.

4.1.8. These technical recommendations intend to obtain better performance of the coating system.

4.2. Surface Preparation:

4.2.1. The surface preparation must be performed accolording to Standard SSPC SP-13/NACE Nº 6, Technical Direction No 03732 of ICRI – International Concrete Repair Institute, and compared to the visual standards expressed as CSP 1 to 10:

4.2.3. Scarifying:

This equipment is recommended to cut anti-slip grooves, removal of concrete surface layers contaminated with grease, oil, rubber, synthetic paving, coatings, traffic lines, among other applications on floor surfaces in general.

The scarifier consists of a motor that spins a reel of tungsten carbide tools/discs that roughen and remove thin layers from the floor surface. The thickness of the layer removed depends on the type and shape of the disc used.

4.2.4. Manual and rotary hammer grinders:

Those machines operate with motors with one or two multiuse discs (three diamond inserts or grindstones per disc). Depending on the floor hardness, silicon carbide and tungsten carbide inserts can be used.

4.2.5. Shotblasting:

Another way to prepare the concrete, especially floors, is shotblasting, using steel shots in a closed circuit.

4.2.6. Acid treatment:

It is only recommended on ground level floors and walls, provided there is no risk of infiltration, since the acid attack to the hardware may compromise the mechanical strength and safety of the structure. When using this method, follow the instructions contained in the technical bulletins of the products or their containers.

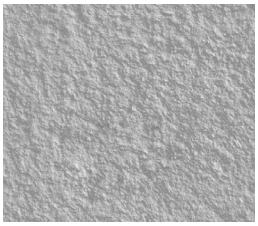
4.2.2. Visual patterns of ICRI - International Concrete Repair Institute

CSP 1 – Acid attack
685,8 µm*

CSP 2 – Grinding
812,8 µm*

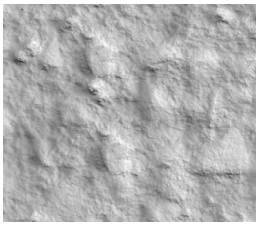
CSP 3 – Light shotblasting
965,2 µm*

CSP 4 – Light scarifying
1270 µm*

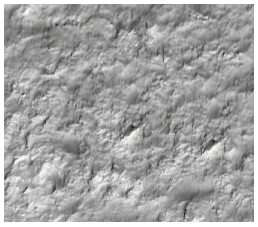


CSP 5 – medium shotblasting
1676,4 µm*

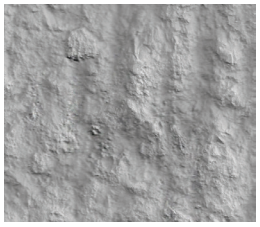
CSP 6 – Medium scarifying
3175 µm*



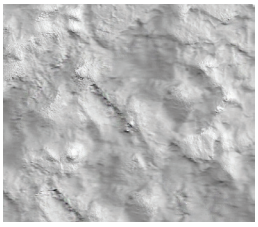
CSP 7 – Heavy shotblasting
4445 µm*



CSP 8 – Polishing with steel or widea inserts
5334 µm*



CSP 9 – Heavy scarifying
5435,6 µm*



CSP 10 – Hand hammer to Concrete followed by abrasive blasting
6350 µm*

**Note: medium roughness after surface treatment.*

The scope of WEG Group solutions is not limited to the products and solutions presented in this brochure.
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For WEG´s worldwide operations visit our website

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