

## UNICO Plaster System | TECHNICAL DATA SHEET | TDS

For Interior Floors and Vertical Surfaces (UNI 8681)

### PRODUCT FEATURES

**ROMABIO UNICO PLASTER SYSTEM**, is a multi-layer mineral system that allows for seamless, continuous coverings on horizontal and vertical surfaces, finished with a resin paste in three different grain size options for every need, ideal for making decorative finishes for an aesthetic impact on walls and floors. With a unique formulation based on precious resins and high-strength precious aggregates, the **UNICO PLASTER SYSTEM** offers excellent flexibility, resisting the micro-movements of the substrate, as well as excellent waterproofing while also offering high mechanical characteristics throughout the cycle. Continuous seamless covering where the protagonist is the materiality that makes the rooms unique and full of charm. **UNICO** is a decorative coating which offers aesthetic solutions of great value, with performances able to meet the expectations of designers and architects. **UNICO** is the ideal answer to the multiple technical/aesthetic needs of contemporary architecture, in the private or commercial context both residential, Hospitality & Wellness, even in wetlands thanks to the absolute quality of the entire application cycle of products that composes it.

### FIELDS OF APPLICATION

**UNICO PLASTER SYSTEM** can be applied on:

- concrete
- screeds (sand and cement-based screeds, sand and specific binder for screeds, ready-made packaged screeds, self-leveling sand and cement screeds)
- radiant and refreshing with minimum thickness, above pipe, between 25-35mm
- surfaces covered with ceramic, porcelain and mosaic tiling
- glazed bricks
- surfaces with existing epoxy or polyurethane coatings
- surfaces in natural and rebuilt stone
- mineral conglomerates of various kinds, provided they are absorbent
- new and old plasters based on hydraulic binders
- organic or mineral decorative coatings
- gypsum and plasterboard surfaces

### SYSTEM LIMITATIONS (Unworkable surfaces)

DO NOT apply **UNICO PLASTER SYSTEM** on:

- horizontal or vertical substrates that do not offer the necessary guarantees in terms of bonding and dimensional stability.
- forkliftable surfaces (garages, loading/unloading areas where the use of trolleys, transpallets, forklifts or similar, cars, etc.)
- radiant screeds with heating and cooling system
- wooden flooring
- linoleum
- pre-finished wooden flooring
- glass surfaces or concrete and glass blocks
- moist surfaces or surfaces with rising damp
- It is not suitable for areas that consistently hold water

### GENERAL APPLICATION INSTRUCTIONS

This system is applied in layers by means of a smooth steel or plastic spatula, depending on the chromatic effects you want to obtain. With the **UNICO PLASTER SYSTEM** you can create infinite effects and colors, and it is available in white base, or can be tinted. The **UNICO PLASTER SYSTEM** is suggested to be tinted with Romabio Pigments, ready for use without the addition of catalysts or crosslinkers.

This system can be used for the realization of decorative coatings in homes, shops, offices, showrooms, furniture etc.

Always perform a thorough cleaning of the surface from any trace of oil, grease, old paints and anything else that could compromise the correct adhesion of the coating.

### DILUTION/MIXING RATIO:

The product is mostly ready to use. Read Application Instructions for each Component or Cycle for specific dilutions or ratios. It is recommended to mix well with an electric drill with paddles before application.

### GENERAL SUBSTRATE PREPARATION:

- All Surfaces must be clean, dry and compact and free from flaking, salt bloom or damp, wax, oil and dust before apply **UNICO PLASTER SYSTEM**.
- Preparation of the substrate is a mandatory step for successful results. Before application, thoroughly wash the surface with a soda-based (alkaline) cleaner. All oily substances form a film that can prevent the coating from adhering.
- When applying to heated screeds, ensure that all necessary tests have been completed before the application of the **UNICO PLASTER SYSTEM** to avoid the formation of condensation, cracks or lesions on the surface, which are in no way connected to the application of the **UNICO PLASTER SYSTEM**.
- Dynamic joints must remain free to absorb any structural movement that may occur; they must not be joined or covered for any reason.
- The surfaces to be treated must not be subjected to constantly filled areas in water or rising damp

### CONDITIONS FOR APPLICATION

- Protect the surfaces from freezing and thermal shocks throughout the application.
- Do not apply when air, substrate or product temperatures are below 50 °F or above 95 °F, or under direct sunlight or on hot surfaces (even when in shadow), nor on damp or wet surfaces.
- The required environmental and substrate conditions for the application of the **UNICO PLASTER SYSTEM** are:
  - Ambient temperature: Min. 50 °F / Max. 95 °F
  - Relative ambient humidity: <75%
  - Substrate temperature: Min. 50 °F / Max. 95 °F
  - Relative humidity of the substrate: < 4%

*Failure to observe the conditions listed above may cause flaws or defects in the physical and chemical characteristics of the products and affect the aesthetic performance of the **UNICO PLASTER SYSTEM**.*

**HUMIDITY WARNING!** Before applying to both walls and floors, it is always advisable to carefully evaluate the amount of humidity present. Skipping this step or performing it incorrectly could cause the coating to detach in the points of greatest humidity because the same would push the coating upwards, causing swellings which would break in the long run. **SEE PAGE 5 FOR FULL DETAILS!**

### COMPONENTS & TOOLS OF THE UNICO PLASTER SYSTEM

**ROMABIO UNICO PLASTER SYSTEM** consists of different categories of products, each one formulated according to the different application needs and the type of surface where the system is to be applied. The products that make up the cycle are essential to obtain the best results both in terms of aesthetics and performance. All these materials are formulated to work in close synergy with each other, but each product is created to meet different needs. It is essential that they are used correctly according to the methods described in the following sections dedicated to the type of surface.

● **UNICO PRIMER:** an adhesion promoter and consolidator for all difficult substrates. It is a single-component primer based on special resins which it combines with special additives, providing the product with high adhesion capacity on all surfaces. UNICO PRIMER can be applied on all surfaces such as: tiles, concrete, plaster, plasterboard, paints, resins, marble, wood, formica, melamine, etc. It can be applied to horizontal or vertical surfaces by diluting the product according to the absorption of the substrate. The dilution can vary from 10% to 30%.

*Application Tools: Short-haired roller /brush*

*Number of Coats: 1 + 1 (Fiberglass mesh gluing + fixing)*

● **UNICO BASE:** a single-component paste based on high-strength precious resins and aggregates. A very fluid product, it is suitable for creating continuous layers of adhesion between the surface and subsequent finishing coats with UNICO. It is also suitable as a filler for tile joints in floor preparation. It reaches hardening approximately 7-8 hours after application and is ready to use. It is applied with a trowel on both horizontal and vertical surfaces.

*Application Tools: Steel Trowel*

*Number of coats: 1*

● **UNICO EXTRA FINE:** a spreadable paste resin, with an extra fine particle size to be used as an optional skim coat on UNICO FINE if you wish to obtain an aspect even smoother. Its fiber-reinforced composition, still guarantees high resistance and a high level of walkability use on the coated surfaces

*Application Tools: Steel or plastic Trowel*

*Number of coats: 1 on UNICO FINE*

● **UNICO MEDIUM:** a spreadable resin paste for decorating floors and walls. Unico Medium offers a slightly porous textural effect that varies depending on the desired outcome and the type of work performed. Unico Medium should be used **only** for obtaining very textural finishes and in the case of irregular surfaces as a slight leveling coat.

*Application Tools: Steel Trowel*

*Number of coats: 1 only in the prescribed cases*

● **UNICO FINE:** a spreadable paste resin with reduced grain size for use as a first and second final coat on UNICO BASE. Only if required, it can be coated with an additional coat of UNICO EXTRAFINE if a smooth aesthetic appearance with a lower degree of porosity is desired while maintaining the exclusivity and aesthetic grade of the UNICO material system. Its fiber-reinforced composition, guarantees high strength and a high degree of walkability of the coated surfaces.

*Application tools: Steel Trowel*

*Number of coats: 2 on UNICO BASE*

● **FIBERGLASS MESH:** Fiberglass mesh with high resistance and low weight with a density of 70 g/m<sup>2</sup>. Resistant to alkalis, it does not decompose or rust over time, does not emit toxic and harmful substances, has high resistance to tearing and stretching, improves mechanical resistance and facilitates the application of the products.

*Application Tools: Cutter, Steel trowel or Short-haired roller*

*Number of Layers: 1*

● **UNICO TOPCOAT MATTE:** Is a one-component Clear Topcoat based on water-based polyurethane resins with a gloss of: <15% (Matt) < 65 ÷ 75% (Gloss). Creates a film with excellent mechanical and chemical resistance, resistant to abrasion and water-repellent, for the protection of surfaces made with the UNICO PLASTER SYSTEM.

*Application Tools: Flocked roller / Spray*

*Number of coats: 2*

● **UNICO TOPCOAT GLOSS:** a one-component Clear Topcoat based on water-based polyurethane resins with a gloss of: > 65 ÷ 75% (Gloss). Creates a film with excellent mechanical and chemical resistance, resistant to abrasion and water-repellent, for the protection of surfaces made with the UNICO PLASTER SYSTEM.

*Application Tools: Flocked roller / Spray*

*Number of coats: 2*

● **UNICO SINK, SHOWER FLOOR, & TUB SEALANT:** Is a special Clear Topcoat Satin, with strong sealing power and wear resistance. Therefore, the ideal product for sealing sinks, bathtubs and shower trays in addition to use as an ultra-high performance Clear Topcoat. For cleaning the tools use alcohol 99%. Product suitable for constantly filled areas.

*Application Tools: Flocked roller / Spray*

*Number of coats: 2*

● **UNICO FLOOR WAX MATTE:** Is a metallic wax in water emulsion with a matt effect, whose high resistance composition allows an excellent sacrificial protection of the coatings obtained with the UNICO PLASTER SYSTEM for which it was formulated. Apply in one coat, as a final protection on a dry surface.

*Application Tools: Wax spreader or a microfiber cloth*

*Number of coats: 1*

● **UNICO FLOOR WAX GLOSS:** Is a metallic wax in water emulsion with a gloss effect, whose high resistance composition allows an excellent sacrificial protection of the coatings obtained with the UNICO PLASTER SYSTEM for which it was formulated. Apply in one coat, as a final protection on a dry surface.

*Application Tools: Wax spreader or a microfiber cloth*

*Number of coats: 1*

### SPECIAL SURFACE PREPARATIONS

It's important ... care must be taken with surface preparation Before Being Treated With UNICO PLASTER SYSTEM when applications are carried out on special or inconsistent surfaces.

This type of surfaces, based on its characteristics, requires prior surface preparation which is divided into two methods, namely:

#### A. Epoxy screed saturated with quartz sand

- > Concrete screed and floors in general, affected by rising damp
- > Uncured concrete screed
- > Concrete Floors with high pH
- > Bonded waterproofing membrane (shower tray, bathtub edges and slightly moist areas)

#### B. Reinforced Epoxy screed/ with mesh and sand

- > Ceramic, porcelain and terrazzo floors patched with cementitious materials
- > Concrete floors affected by micro-lesions from settling
- > Cement screed and floors in general, affected by micro-cracks
- > Inconsistent floors such as parquet, wood in general or wooden floor panels
- > Floors in general made with Gypsum board or Cementitious panels

A EPOXY SCREED SATURATED WITH QUARTZ SAND			
	PRODUCTS	PREPARATION	ACTIONS/TOOLS
1	A+B High Solid Epoxy Resin for screeds	Mix components A+B as per TDS indications	
2	Quartz Sand Size 0.1-0.3 mm	In the resulting mixture add 120% by weight of clean quartz sand	
3		Apply the resulting paste with a steel trowel at thickness between 1,5 mm – 2,0 mm	
4		With the product still fresh, manually spread further sand until completely saturated.	
5		Let rest and dry for 24 hours	
6	Vacuum Cleaner	Once dry, remove excess sand with a vacuum cleaner	
7	Sandpaper Discs grit 36/40 + Random Orbital Sander (Small Surfaces) Or Monobrush Machine (Large Surfaces)	<ul style="list-style-type: none"> <li>Sand well</li> <li>Clean or vacuum the sanding residues thoroughly</li> </ul>	
8	UNICO PLASTER FINO	Apply first coat of Unico plaster with trowel and continue as per standard application cycles	

B REINFORCED EPOXY SCREED WITH MESH & QUARTZ SAND			
	PRODUCTS	PREPARATION	ACTIONS/TOOLS
1	A+B High Solid Epoxy Resin for screeds + FIBERGLASS MESH 70 gr/m <sup>2</sup> FIRST LAYER	Mix components A+B as per TDS indications, then Apply first coat of High Solid Epoxy Resin for screeds with a roller or trowel + With still fresh product, glue the first layer of fiberglass mesh on the surface. Let dry for 24 hours	
2	A+B High Solid Epoxy Resin for screeds + FIBERGLASS MESH 70 gr/m <sup>2</sup> SECOND LAYER Quartz Sand Size 0.1-0.3 mm	After 24 hours, Mix components A+B as per TDS indications. In the resulting mixture add 120-140% by weight of clean quartz sand Apply the second coat of High Solid Epoxy Resin for screeds with roller or steel trowel + glue the second layer of fiberglass mesh on the surface in the opposite direction to the first application in order to obtain a cross-weave	
3	Spread Sand	With the product still fresh, manually spread further sand until completely saturated.	
4		Let rest and dry for 24 hours	
5	Vacuum Cleaner	Once dry, remove excess sand with a vacuum cleaner	
6	Sandpaper Discs grit 36/40 + Random Orbital Sander (Small Surfaces) Or Monobrush Machine (Large Surfaces)	<ul style="list-style-type: none"> <li>Sand well</li> <li>Clean or vacuum the sanding residues thoroughly</li> </ul>	
7	UNICO PLASTER FINO	Apply first coat of Unico plaster with trowel and continue as per standard application cycles	

## APPLICATION CYCLES ON DIFFERENT SUBSTRATES

### NEW CEMENT FLOORS (ABSORBENT SUBSTRATE)

**PREP:** be sure to check the adhesion of the substrate, in the case of low adhesion values, removal is recommended. New cement floors surfaces should not be plastered on for about 28 days to ensure proper curing and drying.

1. On the clean surface, apply a coat of Ecoforte Consolidator diluted as instructed with water, to block absorption and consolidate the cortical layer.
2. Apply a coat of UNICO PRIMER with a roller diluted 30% and, while the product is still wet, apply the fiber glass net gr 70 (not to surmount but only to pull over). Apply again a coat of UNICO PRIMER fully covering the net. Wait about 4 hours for drying.
3. Proceed with the application of UNICO BASE (ready to use) After 12 hours, sand with a random orbital or single disc machine with 40-80 grit paper to remove any imperfections and vacuum the surface.
4. Proceed as follows according to the desired finish:

#### **UNICO MEDIUM FINISH** (highly textured finish)

- After 6-8 hours proceed with the application of UNICO MEDIUM (ready to use)
- After 12 hours, sand with a random orbital 40-80 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the second coat of UNICO MEDIUM (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 80 – 100 grit paper to remove any imperfections and vacuum the surface. Proceed to Step 5

#### **UNICO FINE FINISH** (fine textured finish)

- After 6-8 hours proceed with the first coat of UNICO FINE (ready to use).
- After 12 hours, sand with a random orbital or single disc machine with 100- 120 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the Second coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100- 120 grit paper to remove any imperfections and vacuum the surface. Proceed to Step 5

#### **UNICO EXTRA FINE FINISH** (extra-fine textured finish)

- After 6-8 hours proceed with the first coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100-120 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the second coat of UNICO FINE (ready to use) After 12 hours, sand with a random orbital or single disc machine with 100- 120 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the Third coat of UNICO EXTRA FINE (ready to use) After 12 hours, sand with a random orbital or single disc machine with 160-180 grit paper to remove any imperfections and vacuum the surface. Proceed to Step 5

5. After 24 hours the surface must be protected with the UNICO TOPCOAT in matte or gloss. Use the ready-to-use product which can be diluted with up to 10% water. Vacuum the surface before painting.
6. When perfectly dry (therefore the surface can be walked on), apply a second coat of UNICO TOPCOAT with the same dilution of water. Maximum time for over-application 24 hours. After this time a light sanding is needed of the surface as the paint has reached complete cross-linking and therefore adhesion defects could arise.
7. On high-traffic surfaces (shops, show rooms, shopping centers) we recommend the application of UNICO FLOOR WAX in matte or gloss. This product is a self-polishing wax which offers a sacrificial surface to scratch in order to preserve the underlying cycle. This product can also be used on resin floors as as maintenance used in a 6-7% solution together with a neutral detergent.

### PAINTED CEMENT FLOORS (NON-ABSORBENT SUBSTRATE)

**PREP:** check well that the existing paint is well adhered and does not flake. Sand with a random orbital or single disc machine with 40-80 grit paper to remove any imperfections and vacuum the surface. Continue from Step 2 in the previous Section (**NEW CEMENT FLOORS**)

### CEMENT/CEMENT STUCCO WALLS/CEMENTITIOUS BOARD/DRY WALL

**PREP:** New cement or new cement stucco walls, should not be plastered on for about 28 days to ensure proper curing and drying. The surface must be smooth, completely dry, and free from defects. On substrates that are not new or previously painted, it is necessary to remove any parts that are not well attached and level the imperfections by scraping, grouting or brushing. If needed sand with a random orbital or single disc machine with 40-80 grit paper to remove any imperfections and vacuum the surface.

1. On the prepared surface, apply a coat of Ecoforte Consolidator diluted as instructed with water, to block absorption and consolidate the cortical layer.
2. Apply 1 coat of MEDIUM GRIP PRIMER diluted 30-40% with clean water.
3. Proceed as follows according to the desired finish:

#### **UNICO MEDIUM FINISH** (highly textured finish)

- After 6-8 hours proceed with the application of UNICO MEDIUM (ready to use)
- After 12 hours, sand with a random orbital 40-80 grit paper to remove any imperfections and remove dust from the surface with a damp cloth or vacuum cleaner
- After 6-8 hours proceed with the second coat of UNICO MEDIUM (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 80 – 100 grit paper to remove any imperfections and Remove dust from the surface with a damp cloth or vacuum cleaner.

#### **UNICO FINE FINISH** (fine textured finish)

- After 6-8 hours proceed with the second coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100- 120 grit paper to remove any imperfections and remove dust from the surface with a damp cloth or vacuum cleaner.
- After 6-8 hours proceed with the Third coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100- 120 grit paper to remove any imperfections and remove dust from the surface with a damp cloth or vacuum cleaner.

#### **UNICO EXTRA FINE FINISH** (Extra-fine textured finish)

- After 6-8 hours proceed with the second coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100- 120 grit paper to remove any imperfections and Remove dust from the surface with a damp cloth or vacuum cleaner.
- After 6-8 hours proceed with the Third coat of UNICO EXTRA FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100-120 grit paper to remove any imperfections and Remove dust from the surface with a damp cloth or vacuum cleaner.

4. After 24 hours minimum the surface must be protected with the UNICO TOPCOAT in matte or gloss. Use the ready-to-use product which can be diluted with up to 10% water. Vacuum the surface before painting.
5. When perfectly dry, apply a second coat of UNICO TOPCOAT with the same dilution of water. Maximum time for over-application 24 hours. After this time a light sanding is needed of the surface as the paint has reached complete cross-linking and therefore adhesion defects could arise.

## APPLICATION CYCLES ON DIFFERENT SUBSTRATES

### CERAMIC TILE FLOORS AND WALLS (NON-ABSORBENT SUBSTRATE)

**PREP:** Tiles not adhering well, must be removed and replaced. Degrease with degreasing detergents and remove any oil, grease, dirt, algae, chalk and mold stains with appropriate cleaners insisting, especially in the joints. Extra Glazed ceramic: wash with 7-8% hydrochloric acid (makes the surface opaque and opens the pore on the surface).

Tiles joints larger > 3 millimeters must be filled with UNICO BASE. Wait at least 12 hours and sand with a random orbital or single disc machine with 40-80 grit paper to remove any imperfections, vacuum the surface before continuing with the next steps of the cycle

1. Once the above surface preparation is complete, apply UNICO PRIMER by roller or brush without thinning and, while the product is still wet, apply the fiber glass net gr 70 (not to surmount but only to pull over). Apply again a coat of UNICO PRIMER fully covering the net. Wait about 4 hours for drying.
2. Proceed with the application of UNICO BASE (ready to use) After 12 hours, sand with a random orbital or single disc machine with 40-80 grit paper to remove any imperfections and vacuum the surface.
3. Proceed as follows according to desired finish:

#### **UNICO MEDIUM FINISH** (highly textured finish)

- After 6-8 hours proceed with the application of UNICO MEDIUM (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 40-80 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the second coat of UNICO MEDIUM (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 80 – 100 grit paper to remove any imperfections and vacuum the surface. Proceed to Step 4.

#### **UNICO FINE FINISH** (fine textured finish)

- After 6-8 hours proceed with the first coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100 - 120 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the Second coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100 - 120 grit paper to remove any imperfections and vacuum the surface. Proceed to Step 4.

#### **UNICO EXTRA FINE FINISH** (Extra-fine textured finish)

- After 6-8 hours proceed with the application of UNICO MEDIUM (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 40-80 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the second coat of UNICO FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100 - 120 grit paper to remove any imperfections and vacuum the surface.
- After 6-8 hours proceed with the Third coat of UNICO EXTRA FINE (ready to use)
- After 12 hours, sand with a random orbital or single disc machine with 100-120 grit paper to remove any imperfections and vacuum the surface. Proceed to Step 4.

4. After 24 hours minimum the surface must be protected with the UNICO TOPCOAT in matte or gloss. Use the ready-to-use product which can be diluted with up to 10% water. Vacuum the surface before painting.
5. When perfectly dry, apply a second coat of UNICO TOPCOAT with the same dilution of water. Maximum time for over-application 24 hours. After this time a light sanding is needed of the surface as the paint has reached complete cross-linking and therefore adhesion defects could arise.

### CERAMIC TILE FLOORS AND WALLS (CONT'D)

6. On **FLOORS** with high-traffic surfaces (shops, show rooms, walkways) we strongly recommend the application of UNICO FLOOR WAX in matte or gloss. This product is a self-polishing wax which offers a sacrificial surface to preserve the underlying finish. This product can also be used on resin floors for maintenance used in a 6-7% solution together with a neutral detergent.

### SINKS, TUBS, AND CERAMIC SHOWER TRAY (EXTRA NON-ABSORBENT SUBSTRATE)

The application of UNICO PLASTER SYSTEM can be done on sinks or tubs constructed of the following materials: glazed ceramic, concrete, glazed steel, polyester or epoxy resins. For best results stick to the following cycle:

#### **SUBSTRATE REQUIREMENTS & PREPARATION**

- Glazed ceramic or glazed steel: wash with 7-8% hydrochloric acid (makes the surface opaque and opens the pore on the surface).
  - Cement: If new ready for application, otherwise consider hydrowashing and coat of consolidating primer as ECOFORTE
  - Old Resins coating: sand with 80 grit paper. Vacuum the surface
1. Once the above surface preparation is complete, apply UNICO PRIMER by roller or brush without thinning. To increase the strength of the grip, the primer can be loaded with a special 0.25mm quartz dry sand. (1 part of quartz sand + 3 parts of Primer). Wait at least 7 hours for complete drying
  2. Apply and Spread UNICO FINE over the surface in an even layer. After the product has dried (12 hours), sand with 120-grit sandpaper. Clean the area with a damp cloth to remove all dust and debris (very important).
  3. Make sure the area is clean, spread a second coat of UNICO FINE.
  4. After the product has dried (12 hours), sand with 120-grit sandpaper. Clean the area with a damp cloth to remove all dust and debris (very important).
  5. **If you prefer to have a smoother surface, you can apply a topcoat of UNICO EXTRA FINE (two coats are recommended if there are many curved fittings). After the product has dried (12 hours), sand with 120-grit sandpaper.**
  6. After 24 hours the surface must be protected with the first coat of UNICO SINK, SHOWER FLOOR, and TUB SEALANT, a special two-component extra transparent sealant protection, mixing the two components in the following percentages: COMPONENT A: 70% + COMPONENT B: 30%
  7. After at least 4 hours, proceed to apply the second coat of UNICO SINK, SHOWER FLOOR, and TUB SEALANT, mixing the two components as above.

#### **WARNING: UNICO SINK, SHOWER FLOOR, and TUB**

**SEALANT**, has a POT LIFE of 6 hours once the two components are mixed. After this time it is recommended not to apply.

For normal use and to use water on coated surfaces, it is mandatory to wait at least 72 hours after the last coat of Sealant.

#### MAINTENANCE

For maintenance In general dirt, dust, contaminants, and excessive wear and tear will shorten the life of coating. Keep these areas clean and free from such pollutants and avoid excessive wear and tear. Clean coating regular with warm mild detergent water up to 60°C and rinse with clean water. Do not use abrasive brushes, scouring pads or solvent to clean the coated surface.

#### STORAGE

Store in a cool, dry and protected from frost. Close the open containers with care.

#### SHELF LIFE

The packaged product is guaranteed for 36 months, if stored at temperatures between 40° F and 90° F.

#### PACKAGING

UNICO PRIMER		
UNICO TOPCOAT		
UNICO FLOORWAX	buckets 2.5 lt	(0.66 gall)
UNICO BASE		
UNICO MEDIUM		
UNICO FINE		
UNICO EXTRA FINE	buckets 25 Kg	(55 lbs)
UNICO SINK, SHOWER FLOOR, and TUB SEALANT		
TOPCOAT SATIN	bucket 1 Kg	(2.20 lbs)

#### DRYING TIME/CURING TIMES

- Ready for pedestrian walkway: at least 24 h
- Ready for heavy traffic: at least 48 h
- Complete curing occurs within 7 days hours depending on the temperature and relative humidity which must always be those indicated in the parameters of the chapter "Conditions for application"

All drying times depend on climatic conditions, temperatures, film thickness, ventilation, humidity and application methods.  
**Good ventilation is required in confined areas to ensure proper drying.**

**Even in the case of adequate temperatures, always monitor the relative humidity of the air which must not exceed 80% and in any case leave the area ventilated during the drying phase**

#### TOOLS

Trowel – Roller – Wax Spreader

#### TOOL CLEANING

Brush, roller, Wax Spreader should be cleaned immediately after use with water and a mild detergent or dish soap. Only for the solvent-based version of Topcoat use nitro solvent

**HUMIDITY WARNING!:** Before applying to both walls and floors, it is always advisable to carefully evaluate the amount of humidity present. Skipping this step or performing it incorrectly could cause the coating to detach in the points of greatest humidity because the same would push the coating upwards, causing swellings which would break in the long run. Therefore, this type of control is strictly necessary and, to carry it out correctly, it is important to know that the humidity present in the screed must be divided into two different categories.

- **First Case:** One of these takes the form of humidity present inside the concrete of a new ballast. The latter, once ready for casting, consists of tens of liters of water. Therefore, when it is fresh, what is detected inside it is not actual moisture. In the weeks following installation, the water will almost completely evaporate, eliminating the related problems.
- **Second Case\*:** Usually the real problems of rising damp arise when the humidity is permanent in a dry and mature underlying screed, usually in contact with the underlying soil. In this eventuality, the professional who carries out the work will have to measure the quantity present (at least 40mm from the surface of the screed), using special electronic instruments or a calcium carbide hygrometer. A percentage of humidity higher than 3 -5% cannot be tolerated.

*\*In the second case, after a careful assessment of the state of rising damp present and a feasibility assessment, the best option for the situation in question can be found, creating a possible restoration or creation of the vapor barrier which will allow the realization of the resin flooring.*

#### WARNING!

**Do not apply any products in direct exposure to strong/hot sunlight, rain, mist, high humidity (> 80%), at dew-point formation, or in the presence of strong wind. Beware of the danger of frost overnight. If applied by roller or sprayer, protect surrounding surfaces as necessary. Protect eyes and skin from splashes of paint. Cover glass, ceramic, natural stone, brick, metal, wood, painted surfaces and glazed tiles. Clean affected areas immediately with water. Prominent elements lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. Before you start, find out how to protect yourself and your family by contacting the U.S. EPA/Lead Information Hotline at 1-800-424-LEAD (5323) or log on to [www.epa.gov/lead](http://www.epa.gov/lead).**

#### WARNING

Keep out of reach of children. In case of contact with eyes and skin, wash immediately with plenty of water. In cases of consumption, consult a Doctor or call the CDC Poison Center. 1-800-222-1222.

## UNICO Plaster System | TECHNICAL DATA SHEET | TDS

For Interior Floors and Vertical Surfaces (UNI 8681)

PRODUCT NAME	NUMBER OF COAT NEEDED	CONTAINER	COVERAGE PSF PER 1 COAT -SF	COVERAGE PSF PER 2 COAT -SF	NOTE
UNICO PRIMER	1 (ONE)	2.5 lt	200-230sf	NOT EXPECTED	
FIBERGLASS MESH NETTING	1 Layer	50 sq mt	50 sq mt	NOT EXPECTED	
UNICO BASE	1 (ONE)	25 Kg	250-270sf	NOT EXPECTED	*2 coats, might be needed only in the case of very irregular surfaces to achieve acceptable flatness. WARNING: THE PRODUCT IS NOT A MASONRY SKIM PLASTER so not suitable for high thickness
UNICO MEDIUM	1 (ONE)/2 (TWO)*	25 Kg	250 - 270 sf	135 - 150* sf	*Usually UNICO MEDIUM is applied only if a rough, more textured finish is required
UNICO FINE	2 (TWO)	25 Kg	590 - 640 sf	310 - - 350 sf	
UNICO EXTRA FINE	1 (ONE)*	25 Kg	860 -1050 sf	NOT EXPECTED*	*EXTRA FINE is used in two coats only on surfaces if there are many curved fittings. i.e., Sinks/Tub
UNICO TOP COAT MATTE	2 (TWO)	2.5 lt	430 -480 sf	235 -265 sf	
UNICO TOP COAT GLOSS	2 (TWO)	2.5 lt	430 -480 sf	235 -265 sf	
UNICO SINK, SHOWERFLOOR, and TUB SEALANT	2 (TWO)	1 Kg (A+B)	400 -450 sf	200- 230 sf	Two-component product/ Pot Life 6 hours
UNICO FLOOR WAX MATTE	1 (ONE)	2.5 lt	425-450sf	NOT EXPECTED	
UNICO FLOOR WAX GLOSS	1 (ONE)	2.5 lt	425-450sf	NOT EXPECTED	

## UNICO SYSTEM TECHNICAL DATA

CRITERIA	INT. STANDARD	VALUE	UNIT
Determination of flexural properties	EN ISO 178:2019	19,87	$\sigma$ (Mpa)
	EN ISO 178:2019	1,56	s (mm)
	EN ISO 178:2019	3374	Ef (Mpa)
Methods of test for screed materials Determination of surface hardness	UNI EN 13892-6/2004	40,8	Sh (N/mm <sup>2</sup> )
Determination of non-volatile-matter content	UNI EN ISO 3251	81± 1 68± 1	% (p/p)
Damp Abrasion Resistance (Gardner Cycles)	ISO 11998	< 5000	Resistant to damp cleaning
Alkaline Resistance	UNI 10795	Excellent	-
Drying Time at Low Temperature	UNI 10793	>41	°F