

QUALITEX MC-300

READY-TO-USE MICROCEMENT

Seamless Decorative Coating for Floors & Walls

PRODUCT DESCRIPTION

QUALITEX MC-300 Ready-to-Use Microcement is a one-component, polymer-modified cementitious decorative coating supplied ready for application. It is designed to create thin, seamless decorative finishes on properly prepared floors, walls and other compatible surfaces.

The system is applied in successive thin coats and protected with QUALITEX Sealer to provide enhanced durability, cleanability and water resistance. The finished surface provides a contemporary concrete-style appearance with customizable colors, textures and application effects.

TYPICAL TOTAL SYSTEM THICKNESS

Approximately 1.5-2.0 mm, depending on the substrate, number of coats and required finish.

RECOMMENDED USES	ADVANTAGES
• Residential and commercial floors • Interior walls and feature walls • Bathrooms, showers and wet areas when properly sealed • Kitchens and countertops • Ceilings • Furniture and decorative architectural elements • Renovation over properly prepared ceramic tiles • Suitable OSB and other compatible substrates • Properly designed and stabilized underfloor-heating systems	• One-component and ready to use • Seamless decorative finish • Ultra-thin system: approximately 1.5-2.0 mm • Suitable for floors and walls • Excellent adhesion to properly prepared compatible substrates • High water resistance when correctly sealed • Wide range of colors and decorative effects • Easy to clean and maintain • Suitable for renovation over existing compatible finishes • Good thermal conductivity over underfloor heating

COMPLETE SYSTEM

SYSTEM BUILD-UP

Prepared Substrate → QUALITEX Tough Primer → QUALITEX MC-300 → Sanding / Finishing → QUALITEX Sealer

Optional epoxy reinforcement and adhesion-promoting layers may be incorporated where required by substrate condition or project specification.

SUBSTRATE REQUIREMENTS & PREPARATION

The substrate must be structurally sound, stable, clean, dry and sufficiently flat for application of a thin decorative coating.

PROPERTY	REQUIREMENT / TYPICAL VALUE
Minimum concrete class	C20/25
Minimum pull-off strength	1.0 N/mm ²
Maximum substrate moisture	4%

Remove all dust, laitance, oil, grease, weak coatings, loose material and other contaminants that could affect adhesion. Unsound concrete must be removed. Cracks, blowholes, voids and surface irregularities must be properly repaired and leveled before application.

Mechanically prepare the surface where necessary and thoroughly remove all dust by industrial vacuuming.

Movement Joints

Existing structural and movement joints must be respected and carried through the complete system where required. QUALITEX MC-300 must not be used to bridge active structural cracks or movement joints.

Underfloor Heating

Underfloor-heating systems must be tested and switched off at least 72 hours before application. The substrate must be stable and within the required application temperature before work begins.

PRIMING

Apply QUALITEX Tough Primer uniformly to the prepared substrate using a suitable roller or trowel. A minimum of 2 coats is recommended. Allow each coat to dry completely; an interval of not less than 24 hours between primer coats is recommended.

PROPERTY	REQUIREMENT / TYPICAL VALUE
Typical primer consumption	0.10-0.15 L/m ²

Actual consumption depends on substrate porosity and surface condition.

PRODUCT PREPARATION

QUALITEX MC-300 is supplied ready to use. Before application, thoroughly homogenize the product using a low-speed mechanical mixer until a uniform consistency is achieved.

IMPORTANT

Do not add water, cement, resin or other materials unless specifically instructed by QUALITEX.

PROPERTY	REQUIREMENT / TYPICAL VALUE
Recommended material / application temperature	10°C to 26°C

Avoid application during extreme temperatures, strong drafts, dusty conditions or other site conditions that could adversely affect application and drying.

APPLICATION

Apply QUALITEX MC-300 using a clean stainless-steel trowel or suitable metal finishing tool.

First Coat

- Apply a thin, uniform layer at a maximum thickness of approximately 1 mm per coat.
- Use controlled multidirectional trowel movements according to the required decorative effect.
- Apply successive material continuously and avoid unnecessary work interruptions.
- Under suitable conditions, allow approximately 4 hours before sanding.
- Sand using approximately 60-80 grit, depending on the desired finish, then thoroughly vacuum the surface.

Second & Subsequent Coats

- Apply the subsequent coat in the same manner.
- A minimum of 2 Microcement coats is recommended.
- After the final coat has dried, sand the surface using approximately 80 grit or finer, depending on the required texture and decorative effect.
- After the final Microcement coat, allow approximately 12 hours drying time before sealing, subject to site conditions.

SEALING

Before sealing, ensure that the Microcement surface is fully dry, sound and firmly bonded, uniformly sanded, clean, and free from dust, oils, waxes and contaminants.

PROPERTY	REQUIREMENT / TYPICAL VALUE
QUALITEX Sealer mixing ratio	Component A : Component B = 5 : 1 by weight
Second sealer coat	After approx. 4 hours without sanding, or after approx. 24 hours following light sanding with ~220 grit

Mix the sealer thoroughly according to its product instructions and apply using a suitable high-quality roller. Avoid sealer application on damp surfaces or under unsuitable environmental conditions.

Application Notes

- Maintain clean tools and footwear throughout application to avoid surface contamination.
- Final appearance depends on trowel technique, sanding sequence, color, substrate and workmanship.
- Prepare an approved site mock-up before large-scale application where appearance is critical.

DRYING & CURING

PROPERTY	REQUIREMENT / TYPICAL VALUE
Dry to touch	1-2 hours at 20°C
Recoating time	2-5 hours*
Dry to light transit	Approx. 12 hours*
Minimum Microcement coats	2
Final curing time	7 days

*Actual drying and recoating times depend on temperature, humidity, ventilation, layer thickness and substrate condition.

FINAL CURING

Allow the completed QUALITEX MC-300 system to cure for 7 days after application of the final protective sealer before exposure to full service conditions. During this period, protect the surface from standing water, washing, chemical exposure, heavy traffic, impact, abrasion and non-breathable coverings.

TYPICAL CONSUMPTION

LAYER	MATERIAL	APPROX. CONSUMPTION
Primer	QUALITEX Tough Primer	0.10-0.15 L/m ²
Optional reinforcement	Epoxy resin	0.20 kg/m ²
Optional adhesion layer	Epoxy resin + sand	0.20-0.30 kg/m ²
1st Microcement coat	QUALITEX MC-300	0.50 L/m ²
2nd / subsequent coat	QUALITEX MC-300	0.25 L/m ²
Sealing	QUALITEX Sealer	0.10 L/m ²
Typical MC-300 total (2 coats)	QUALITEX MC-300	Approx. 1.3 kg/m²

Consumption values are indicative and may vary according to substrate condition, application method, number of coats and required finish.

Based on a typical two-coat consumption of approximately 1.3 kg/m², one 20 kg pail provides a theoretical coverage of approximately 15 m². Actual coverage varies with substrate condition, thickness, texture and application method.

TECHNICAL DATA

PROPERTY	REQUIREMENT / TYPICAL VALUE
Product type	One-component ready-to-use polymer-modified cementitious coating
Appearance	Decorative seamless microcement finish
Typical total thickness	Approx. 1.5-2.0 mm
Minimum coats	2
Density	Approx. 1.75 kg/dm ³
Dry to touch	1-2 hours at 20°C
Light transit	Approx. 12 hours at 20°C
Adhesion	>1.0 N/mm ²
Final curing time	7 days
Packaging	20 kg pail
Shelf life	12 months
Typical consumption	Approx. 1.3 kg/m ² for a typical two-coat application

CLEANING & MAINTENANCE

Clean finished QUALITEX MC-300 surfaces using water and a neutral-pH, non-aggressive detergent.

- Avoid abrasive cleaners.
- Avoid aggressive acidic or alkaline products.
- Avoid chlorine- and ammonia-based cleaners.
- Avoid harsh solvents unless specifically approved for the protection system.
- Always test any new cleaning product on a small inconspicuous area before general use.

CLEANING OF TOOLS

Clean application tools with water immediately after use. Once material has hardened on the tools, mechanical cleaning or sanding may be required.

PACKAGING

PROPERTY	REQUIREMENT / TYPICAL VALUE
QUALITEX MC-300 Ready-to-Use Microcement	20 kg pail
System components	Primer and sealer are supplied separately as part of the complete QUALITEX Microcement System

STORAGE & SHELF LIFE

Store in the original, tightly closed container in a cool and dry environment, protected from direct sunlight, frost and excessive heat.

PROPERTY	REQUIREMENT / TYPICAL VALUE
Shelf life	12 months from date of manufacture when stored correctly in the unopened original container

HEALTH & SAFETY

For professional use. Wear suitable protective gloves and eye protection during handling and application. Provide adequate ventilation when working in enclosed areas. Avoid contact with skin and eyes. In case of contact, rinse thoroughly with clean water.

Refer to the applicable Safety Data Sheet (SDS) for complete information regarding handling, first aid, storage, transport and disposal.

LIMITATIONS

- Do not apply over unstable, wet or contaminated substrates.
- Do not apply over substrates with excessive residual moisture.
- Do not bridge active cracks or structural / movement joints.
- Do not apply outside the recommended temperature range.
- Avoid application under strong drafts, excessive heat or dusty conditions.
- Final appearance may vary depending on trowel technique, sanding, color, substrate and workmanship.
- Water resistance depends on correct application and maintenance of the complete protection / sealer system.
- Permanent immersion applications are not covered by this TDS unless specifically approved by QUALITEX.
- An approved site mock-up is recommended before large-scale application.

TECHNICAL DISCLAIMER

The information contained in this Technical Data Sheet represents current recommended application practice for QUALITEX MC-300 Ready-to-Use Microcement. Actual performance may vary according to substrate condition, surface preparation, application thickness, environmental conditions, workmanship, curing and the selected protection system.

Project-specific requirements should be evaluated and verified before full-scale application. QUALITEX reserves the right to modify product specifications as part of continuous product development.