

DESCRIPTION

Aqua Microconcrete is a thin micro-mortar that is 100% waterproof designed to be a smooth continuous coating with a finishing effect of natural and rustic concrete. Aqua Microconcrete is composed of minerals, polymers, aggregates, resins, dyes and special waterproof additives in a ready to use container. Aqua Microconcrete is seamless and grout-less making this the ideal surface for walls, floors and ceilings especially in wet room applications. Aqua Microconcrete can be applied in interior and exterior applications.

PRODUCT ADVANTAGES

- 100% waterproof micro-mortar
- Excellent hardness
- Great resistance to wear, abrasion and scratching
- Ready to use (no mixing)
- Provides elasticity to substrate performance
- Achieves a seamless, high-end finish
- Easy application, no experience needed
- 0.5mm (1/64th inch) thickness per layer
- 32 standard colors readily available

WHERE TO USE

- Residential interior and exterior applications
- Walls, floors, ceilings and any stable substrates
- Countertops and backsplashes
- Decorative feature walls
- Showers and tub surrounds
- Commercial interior/exterior applications (see "Limitations")
- Can be applied to painted surfaces, plaster, drywall, concrete, wood, plasterboard, granite or quartz
- Options to create custom colors using any water-based tint
- Cover any existing tiled surfaces (see "Limitations")

SUBSTRATE PREPARATION

1. Ensure all substrates are sturdy and stable. *Refer to IBC (International Building Codes) requirements related to floor flatness, including deflection limits and slope tolerances. For example, flooring substrates deflection should not exceed L/360
2. Clean all surfaces and substrates so that the area is free of dust, grease and anything that hinders bond-coat adhesion.
3. Tape off any surface that will not receive Aqua Microconcrete, for example adjust walls,

cabinet face frame & doors, surface of tub surround, floor transitions that change in material

4. If your floor needs to be leveled to meet floor flatness requirements, use your choice of manufacturer self-leveling products according to their specifications. Once the floor is leveled then proceed with **DIMAPCHEM** Primer Plus, Fiberglass mesh, and Koncret base coats and start the application of Aqua Microconcrete
5. If a wall needs to be regularized such as existing tile, or stone you will need to use **DIMAPCHEM** Primer Plus, Fiberglass Mesh and then Aqua Base to fill in the gaps, joints and un-evenness of the surface until it is completely smooth and uniform
6. If the substrate surface is smooth such as drywall, begin using **DIMAPCHEM** Primer Plus and start the application of **DIMAPCHEM** Aqua Microconcrete

APPLICATION PROCESS

1. Always prime your substrate or surface first using **DIMAPCHEM** Primer Plus, allow Primer Plus to fully dry. Use roller to apply
2. Open lid to mix container with a spatula or mixer paddle until the paste is completely homogeneous. PRO TIP: Consider using a low-speed mixing drill connected to a mixing paddle attachment
3. Once container is mixed, scope material onto a steel trowel or plastic trowel and apply to surface in short, semicircular movements. Using the trowel at a 30-degree angle with little amounts of pressure to "butter and sweep" motion. (On very dry substrates, the surface may be lightly moistened using a spray bottle of water. Mist the surface, DO NOT flood the surface)
Pro Tip: If no friction burn marks are desired then use a plastic "white" trowel, not metal
4. After applying the first layer of Aqua Microconcrete to entire surface, allow this layer to fully dry THEN sand with 120-grit to remove any excess material to a finer, smoother surface.
5. After sanding ALWAYS clean the surface powder off using a broom or vacuum before applying the next coat. PRO TIP: Use a vacuum with a floor brush attachment to remove all powder without scratching the surface – this will also speed up the cleaning process of





removing all powder off the surface. Also, use metal sand pads instead of sandpaper

- 6. Begin second layer of Aqua Microconcrete in the same short, semicircular movements using a trowel at a 30-degree angle with pressure to spread.

NOTE: Apply 2 coats at a minimum on all surfaces, again each layer should NOT EXCEED 0.5mm thickness. ALWAYS sand between layers and clean/remove powder before next layer

Option to apply additional layers of Aqua Microconcrete, as needed, until desired continuous finish is achieved

Option for smoother and less rustic finishes after final coat, pass the trowel with no new product over the surface at about 5-degree angle. This helps strength from compression and results in less need for sanding. In hot applications, mist with water to assist the smooth finish.

- 7. Seal: Using **DIMAPCHEM** Sealer with a ¼ inch or thinner microfiber roller, apply sealer to entire surface. Let sealer layer dry completely.
- 8. Final Steps: apply first layer of **DIMAPCHEM** Bi-Component Polyurethane using a ¼ inch or thinner microfiber roller to entire surface, covering well with great attention to corners or areas will receive direct water, such as shower drains or sinks. Allow first layer to dry, begin second layer. ALWAYS apply 2 layers of polyurethane (see data sheet for Cimentart polyurethane)
- 9. Caulk at any change of material (window, tub, drain etc.) with silicon caulk after final polyurethane coat.

PRO TIP: For hard-to-reach areas or smaller detailed surface and corners use a bristle brush. Brushes and rollers can be washed before hardening using dish soap and water, but once hardened will not be useable

LIMITATIONS

- Not to be used over dimensionally unstable substrates that have not been regularized
- NOT for applications with fully submersed water areas or standing water areas
- Commercial applications should follow the IBC (International Building Codes) when product is specified
- Proper substrate preparation is necessary to regularize surface (see "Surface Preparation")

- Existing tiled surfaces whether floor/wall or ceiling ARE REQUIRED to be "regularized" with **DIMAPCHEM** base products such as Konkret Base or Aqua Base
- Never apply product thicker than 0.5mm per layer to ensure max hardness
- Aqua Microconcrete is waterproof however can be stained without **DIMAPCHEM** Sealer and **DIMAPCHEM** Bi-Component Polyurethane. ALWAYS seal and polyurethane Aqua Microconcrete
- Furniture legs placed on product SHOULD ALWAYS have felt pad coverings, no exceptions
- Furniture legs with rigid, plastic leg protectors should always be REMOVED
- Completely avoid dragging furniture, appliances or other objects or tools on a microcement floor
- Never apply product on substrates that are wet, damp or have capillary moisture
- Never apply product on concrete with hydrostatic pressure without a water-based, penetrative sealing of the slab with product of choice
- Do not apply at temperatures below 41°F(5°C) or above 95°F(35°C)
- Use the appropriate Personal Protective Equipment (PPE) to protect the eyes, face, and skin. In case of contact with the eyes, rinse thoroughly with water and consult your doctor
- Do not put within reach of children

USAGE

After final steps of sealer and 2 coats of polyurethane, let it dry completely for at least 4 days before surface usage.

For areas exposed to moisture and direct water allow 7 days before surface will be used

The surface will continue to harden as it cures and will be cured fully in 28 days

CLEANUP

- Any tools using the **DIMAPCHEM** system can be cleaned with water and dish soap prior to the product on them hardening.



Dekwneh - Hayek 38 repoint el hayek

www.dimapchem.com

info@dimapchem.com

Lab Gfc Italy



AQUA MICROCONCRETE by DIMAPCHEM – TECHNICAL DATA SHEET

PACKAGING AND COVERAGE

Aqua Microconcrete is available in 2 container sizes:

11lb or 5KG unit covers approx. 50 FT2

44lb or 20KG unit covers approx. 200 FT2

**Coverage is based on 2 coat applications, for example if you have 100 FT2 project you will need 2 units of 11lb containers. Efficiency decreases on rough surfaces*

TRANSPORATION

Product merchandise is not considered dangerous or hazardous for transport. Aqueous base is free of solvents, alcohols or flammable products

Never allow product to freeze

Never transport product in enclosed trailers with high heat

STORAGE AND SHELF LIFE

Store containers in a dry place protected from bad weather (extreme heat or cold)

Keep material in original containers, ensure container seals well if it has been opened

Shelf life is 12 months

Technical Data Matrix

Presentation	Ready to use white paste
Granulometry	0.2
Classification UNE EN 12004:2008	D2
Density	.1 lbs/ft3 or 2 g/dm3
Adhesion to concrete	A 28 d : superior to 227 psi (16 kg/cm2)
Mechanical Resistance	Compression at 28 d superior to 782 psi (55 kg/cm2)
Flexibility	>08/N mm2
Drying time	2 – 3 hours at 68 °F (20°C) / 60% Relative Humidity
Base	WATER
Efficiency	1.1lb(0.5kg) / 10 ft2(1 m2) approx / 0.5 mm thick per coat
Application Temperature	+ 41°F (5 °C) / + 95°F (35°C)
Mixing Relation	Product Ready-to-Use. Add maximum a 5% of water
Combustion point	Not flammable
Packaging Format	11 lb (5kg) and 44lb (20 kg) Buckets
Slipperiness	C2
Dissolvents	Exempt
Epoxy	Exempt
Resistance to bacteria development	99%
Shipping	Not dangerous for transportation
Storing	Not dangerous for storing



Dekwneh - Hayek 38 repoint el hayek

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