

CONDUO / CONDUO Loft (optional in the Waterproof version) is a decorative microcement for indoor use, and in the Waterproof version also for outdoor use. CONDUO / CONDUO Loft is a system for creating seamless surfaces on existing substructures such as cement screed, anhydrite surface, ceramic tiles, plasterboards, wooden boards, plywood, concrete, and more.

Application / usage:

- finishing of floors and walls in wet areas, such as bathrooms, showers, kitchens, swimming pools, etc.
- floors in apartments, restaurants, shops, hotels, offices, clubs, garages, etc.
- interior cladding of walls, ceilings, indoor columns, and concrete stairs.
- furniture, kitchen countertops, and doors finishing.
- terraces, balconies, exterior stairs, facades

Features:

- exceptionally adhesion to any surface type.
- potential to create any surface structure.
- high resistance to abrasion and scratches is essential for durability.
- resistant to UV radiation, non-yellowing
- coating that is easy to clean
- waterproof version
- infinite color options
- thickness Approx. 2mm
- brief operation time

System configuration - CONDUO/CONDUO Loft (optional Waterproofing):

CONGRUNT - substructure primer

CONDRIY / CONDRIY Loft is component A and CONWET / CONWET Loft is component B (also available in the Waterproof version) - a two-component decorative mass.

CONPIGMENT - liquid dye

CONPU 2K / CONCOVER PRO / CONTOP 1K - polyurethane varnishes designed for protection of the microcement surface

Preparing the surface:

The stability and load-bearing capacity of the substructure are crucial. The concrete should be at least C20/25 (B25) with a minimum tensile strength of 1.0N/mm² - tested through the pull-off method. The moisture level of cement-base should not go over 4%. For anhydrite, the maximum allowable humidity is 0.5%.

When using underfloor heating, warm up the floor by adjusting the heating to the highest temperature. Following the heating process, allow a minimum of 96 hours to pass. Remove any dust, cement milk, plaster, fat, oil, wax, dirt, paints, etc., from the substructure by grinding/shot-blasting and vacuuming. Repair any gaps and fissures using epoxy resin with quartz. In case of uneven absorbency of the substrate, even them out, for example, with epoxy screed. Next can be done the application of microcement. Prime the concrete/anhydrite substructure with CONGRUNT in 1 or 2 layers, as required, and then allow approximately 2-4 hours for it to dry.

Apply waterproofing mass in damp areas. Strengthen concrete, anhydrite floors, or other surfaces like tiles, wood boards with CONDUO Base L/XL / CONDUO Loft Base L/XL (waterproof optional) with a thin-layer SLIM fiberglass mesh laid to the face, which can be bonded using CONGRUNT or the dense, liquid polymer CONWET or CONWET Waterproof. Allow 4-6 hours before continuing with additional tasks.

Ingredients preparation:

The decorative polymer covering comes in two components.

Dry white mass CONDRY / CONDRY Loft (optional in the Waterproof version) and liquid, dense polymer CONWET / CONWET Loft (optional in the Waterproof version), when combined, create an easy-to-apply mixture. The recommended dosing ratio is 1:2.5-3 (e.g. 1kg of liquid polymer to 2.5-3kg of dry white mass). For accurate measurement, electronic scales should be used. The working environment and the following week's temperature should range between +15°C and +25°C. Bonding time may vary with temperature, being shorter at higher temperatures and potentially incomplete at lower temperatures. It is advisable to avoid the draughts.

Proper lighting is essential for realisation. Construction activities need to be halt on the site to prevent the spread of dust and pollutants. Store the liquid polymer in a cool, shaded area. Before the application, blend it at low speed using a basket mixer for 3 minutes.

When blending the components, it is advisable to add the dye into the liquid CONWET / CONWET Loft polymer (optional in the Waterproof version) first, and then slowly introduce the dry mixture. This method helps prevent material clumping. Apply a basket mixer running at a low speed or a designated microcement mixer found in the CONBAR shop for the blending process. Mix thoroughly for 3 minutes until achieving a consistent mixture.



Dyeing:

The CONDUO / CONDUO Loft system, optionally in the Waterproof version, comprises CONDRY / CONDRY Loft - component A and CONWET / CONWET Loft - component B, which are dry mass and liquid polymer. When these two components are combined, a beige color is achieved. For different colors, CONPIGMENT dyes can be used by adding the entire package into the polymer and mixing for a minimum of 3 minutes. This process will result in a color matching the color pattern. Please note that the colors in the sample may vary slightly from the actual outcome.



Application:

Sufficient mass should be prepared for application in one work cycle. Avoid taking breaks while applying the material. Use Venetian trowels, plaster knives, and other metal tools to apply the mass. Spread the mass to the grain thickness using movements in various directions. Apply the decorative mass using the wet-on-wet technique, starting from the windows and moving towards the exit.

Once the material has fully hardened and dried, typically around 4 hours, proceed to sand the surface using a single-disc grinder, also known as a polisher, using sandpaper ranging from 60 to 120 grit or a diamond polishing disc with a grit between 50 and 100, depends on the desired outcome. Ensure thorough vacuuming of the area. Following this process, you may commence applying the second layer following the same procedure as the initial one.

After the final layer has been applied and dried, sand it using sandpaper with a minimum grit of 100 using a single-disc grinder or a diamond polishing disc with a grit of 100. The choice of sandpaper plays a role in defining the structure. Following this step, the surface should be vacuumed once more. Allow approximately 4-6 hours for the surface to completely dry before beginning the impregnation process. Please note that the colors displayed in the sample may vary slightly from the actual results obtained.



Impregnation:

To start impregnation with CONPU 2K, CONCOVER PRO, or CONTOP 1K varnish, the surface needs to be hardened, clean, dry, load-bearing, and degreased. It is advisable to prime the surface with CONPRIMER before applying varnishes. Prior to using CONPU 2K varnish (component A), ensure to shake it thoroughly, then mix the hardener (component B) in a 5:1 ratio (5 weight units of varnish to 1 weight unit of hardener) and blend well. Allow the mixture to rest for 5 minutes before stirring again. The varnish is now ready for application. The recommended application temperature ranges from 15°C to +25°C. For continuous application on larger surfaces, remember to remix every 15 minutes.

Apply using a microfiber roller with bristles of 9–12 mm. The second coat of CONPU 2K varnish can be applied at least after 4 hours or after 24 hours with the option of sanding with sandpaper with a minimum grit of 200.

Authorization for utilization:

The CONDUO / CONDUO Loft decorative surface (optionally in the Waterproof version) can be utilized 12 hours post impregnation, and the surface achieves full hardening and water resistance after 28 days. Insufficient ventilation, low temperature, and high humidity could prolong the specified duration.

Cleaning of tools:

Equipment and tools require cleaning with water. Mechanical cleaning is necessary for the bound material.

Maintenance:

CONDUO / CONDUO Loft microcement (optionally in the Waterproof version) are decorative surfaces that require maintenance. It is important to promptly clean any dirt once the surface gets dirty. For daily cleaning of the floor, utilize water and neutral pH products like CONCLEANER and CONCLEANER PRO. To provide extra protection for the floor, consider applying CONWAX or CONWAX MAT wax.

It is advisable to safeguard the legs of tables, chairs, and other furniture with felt, rubber, or caoutchouc pads to minimize the occurrence of dents. It is not recommended to utilize metal furniture wheels.

Packaging:

The products of CONDUO and CONDUO Loft systems come with products in sets weighing 17.5 kg, 10.5 kg, and 3.5 kg, optionally in the Waterproof version.

CONDRIY / CONDRIY Attic (optional in the Waterproof version) (12.5kg, 7.5kg and 2.5kg) + CONWET / CONWET Attic (optional in the Waterproof version) (5kg, 3kg and 1kg).

Storage:

CONDUO and CONDUO Loft materials (optionally in the Waterproof version) can be stored for 6 months in their original sealed packaging, in a dry room, at a temperature ranging from +10°C to +25°C.

Security protocols

Before starting the work, please read the Safety Data Sheets for the components set in the system. These can be found at CONBAR.pl.

The product is designed for professionals. It is necessary to wear masks and gloves. Prevent breathing in dust.

Consumption of materials and system cross-section:

Lp.	Layer	Product	Consumption
1.	Current subfloor	–	–
2.	Priming layer (optional 2 coats)	CONGRUNT	0.1 - 0.3 kg/m ²
3.	Fiberglass mesh, mesh application (optional)	Mesh SLIM, CONGRUNT/CONWET	c.a. 0.20 kg/m ²
4.	Coarse-grained microcement Base L/XL (2 coats)	CONONE, CONDUO, CONDUO Loft	c.a. 1.6 - 2.2 kg/m ²
5.	Fine-grained microcement Normal/Fino (2 layers)	CONONE, CONDUO, CONDUO Loft	c.a. 0.8 - 1 kg/m ²
6.	A layer of undercoat under the varnish	CONPRIMER	c.a. 0.5 - 0.1 kg/m ²
7.	Varnish Layer (2 coats)	CONPU 2K, CONTOP 1K, CONCOVER PRO	c.a. 0.12 - 0.3 kg/m ²

