



WUCT-CT

CEMENTITIOUS POLYURETHANE MORTAR

UNE MARQUE SIKA
A SIKA BRAND

DESCRIPTION

WUCT-CT cementitious polyurethane mortar is a three-components, water dispersed polyurethane-based cementitious system designed to protect new or deteriorated floors. WUCT-CT provides excellent resistance against compression, abrasion, impacts and chemicals along with thermal shock resistance. This coating offers a choice of anti-slip finish, from very fine to very aggressive, by broadcasting silica sand into the wet coating. This system has been approved by the Canadian Food Inspection Agency (CFIA).

PRIMARY APPLICATIONS

- Food processing plants
- Dry or humid food sector
- Refrigerated area/freezers
- Refineries
- Waste treatment plants
- Laboratories
- Areas of light to heavy manufacturing/circulation
- Mechanical rooms

ADVANTAGES

- Low odor allowing for interior applications without harmful odors
- Thermal shock resistant
- Ideal for correcting and reinforcing concrete surfaces
- Superior compression strength
- Impact resistant
- Dense surface resistant to bacteria and moisture and easy to clean
- Excellent adhesive properties, allowing for application on a wide variety of substrates

TECHNICAL DATA

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|----------------------------|--|-----------------------|--------------------|
| PACKAGING | A: 4.7kg, B: 4.7 kg, C:20kg, D: 4.5kg | VOC G/L | <10 |
| MIX RATIO BY VOLUME | A:B:C (mix full units) | SHELF LIFE | 12 months unopened |
| POT LIFE | 15-20 minutes | FULL CURE TIME | 5 Days |

PROPERTIES @ 23°C (73°F) 50% R.H.

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| TENSILE STRENGTH | 1045 psi | WATER ABSORPTION | 0.12% |
| CONCRETE ADHESION | 275 psi | HARDNESS, SHORE D | 82-87 |
| SOFTENING POINT | 130°C (266°F) | FLEXURAL STRENGTH | 16.2 MPa (2350 psi) |
| TABER ABRASER (CS-17 WHEEL 1000G/ 1000CYCLES) | 0.12g loss | COEFFICIENT OF THERMAL EXPANSION | 1.6x10 ⁻⁵ mm/mm/°C (0.89x10 ⁻⁵ in/in/°F) |



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SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, foreign matter, any previous coatings, and disintegrated substances by mechanical means such as shot-blasting (BLASTRAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in²) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in²).

MIXING

The products must be conditioned at a temperature between 18 ° C (65 ° F) and 30 ° C (86 ° F).

How to prepare part A and B for the system: Mix the resin part (A) before pouring the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture.

How to prepare the epoxy mortar A/B/C: Transfer the A/B mixture into a mixing tank for mortars (Ted Bough mixer – Kol mixer) and gradually incorporate (Part C) and mix for 2-3 minutes until all the aggregates are evenly incorporated. Immediately spread the mixture on the primed surface. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss. (Always mix full units)

APPLICATION

Base coat WUCT-CT: Apply the mixture with a trowel, an adjustable rake, or another suitable tool to achieve the desired thickness. Smooth the coating using a stainless-steel trowel and pass a spiked roller after the coating has settled release any trapped air and to achieve a uniform finish.

Sand aggregate broadcast: Once the spike roller has been passed, immediately broadcast the surface with pre-selected sand aggregates.

Topcoat (WUCT-CP): Clean the cured surface of any excess aggregates using a broom and vacuum and apply a coat of WUCT-CP using a rubber squeegee and use a roller to obtain a uniform coating.

CLEANING

Clean all application equipment with warm soapy water. Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.

RESTRICTIONS

- Do not apply at temperatures below 10 ° C / 50 ° F or above 30 ° C / 86 ° F.
- The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85%.
- Substrate temperature must be 3 ° C (5.5 ° F) above dew point measured.
- Humidity content of substrate must be <4% when coating is applied.
- Do not apply on porous surfaces where a transfer of humidity may occur during the application.



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- The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure).
- Protect the coating from all sources of moisture for a period of 48 hours.
- Surface may discolor in areas exposed to regular ultraviolet light (unless using WUCT-CP30).
- Do not apply on wet surfaces.
- Do not apply to sealed surface.

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information.

IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to CTM Coatings. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. CTM Coatings assumes no legal responsibility for the results obtained in such cases. CTM Coatings assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.