# Yanfloor® U-cem 3639

## Yanfloor® U-cem 3639 Top-coat for Water-based Polyurethane Mortar

### Introduction

- **Yanfloor® U-cem 3639** containfour parts: water-based polyurethane resin, cure agent, pigment and mineral filler.

  **Yanfloor U-cem 3639** can be used as the top-coat for the water-based polyurethane flooring by rolling.

### Usage

- For food industry, such as meat industry, baked food industry, dairy products industry, brewery and beverage industry
- Chemical factory, and cold storage warehouse
- Iron and steel industry
- Heavy-duty areas

### Test

| | |
|---|---|
| Criterion | GB/T22374-2008 standard |
| | ASTM D4541-02 standard |
| | Test report for each batch of products |
| | Test report from qualification institution |

### Product Description

| | |
|---|---|
| Properties | Good acid resistance. Especially for organic acids |
| | Good thermal resistance, such as hot water or hot steam |
| | Good compressive strength and can be used for heavy-duty areas |
| | Cure fast and without joints |
| | Matt and slip-resistant surface |
| Appearance | Part A: Milky white liquid |
| | Part B: Brown liquid |
| | Part C: Gray powder |
| | Part D: Pigment |
| Package | Part A: 2.52kg (plastic bucket) |
| | Part B: 2.86kg (plastic bucket) |
| | Part C: 2.82kg(plastic bag) |
| | Part D: 0.8kg (plastic bag) |

### Storage

| | |
|---|---|
| Storage Condition | Keep at shade place under 30°C. Keep away from fire |
| Exp. Date | 6 months from the date of production if stored properly in original packaging. |



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Certificate No: FM 81172
ISO 9001:2008

## Safety Information

| | |
|---|---|
| Trait | ■ Flammableliquid, flash point≥60°C, noncorrosive and slight smelling |
| Transportation | ■ Transport as C-Class flammable liquid |
| Abandonment Regulation | ■ The waste or cured waste has been suggested to be treated by the qualified organization, such as burning, complying with the local law and regulation. Never pour them into water or soil. |
| Comment | ■ For other details please refer to MSDS |

## Specifications

| Item | Data | Testing Method |
|---|---|---|
| Viscosity (mixture) (MPa.s, 25°C) | 1000~1500 | -- |
| Density (g/cm$^3$) | ≈1.5 | GB/T 6750-1986 |
| Mixing ratio (A/B/C/D) | 2.52/2.86/2.82/0.8 | By weight |
| Consumption (kg/m$^2$/mm) | 1.5 | -- |

Mechanical Properties

| Item | Data | Testing Method |
|---|---|---|
| Adhesive Strength (with concrete) (Mpa) | ≥1.5 (Concrete damage) | ASTM D4541-02 |
| Compressive Strength (Mpa) | ≈50 | ASTM D695-08 |
| Resistant to Thermal Cycling | Passed thermal cycling test from -18°C to 90°C for 24h with 5 times | -- |
| The Thickness of Coating (mm) | 1~2 | -- |
| Interval Time Between Two Layers (Hour) | 12 | -- |
| Pot-life (min, 20°C) | ≈15 | -- |

## Application information

Application details

- Mix Part A, B and D into a clean container and mix them evenly, then put in Part C quickly and mix them evenly as well. Spread the mixture evenly by trowel
- Roll evenly on the surface before the layer cured

## Cleaning of tools

- Clean all the tools and application equipmentin time after finish the application, avoiding the residue materials being cured on the tools and equipment.
- Suggested Detergents: water or YST-10. Make sure rollers be washed at least 3 times, otherwise it will be gelatinized and useless.


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## Ambient Requirements

- The most suitable temperature of substrate is 15°C~20°C, as the ambient temperature is 20°C~25°C. Otherwise it will make the application be more difficult.
- The air humidity cannot exceed 80%
- Substrate temperature is 3°C higher than dew-point

## Notes

- Storage and transported according to rules for C-Class flammable liquid
- The ideal temperature for application is between 15°C~25°C. It will be difficult for application when the temperature is below 10°C or above 30°C
- Well-ventilated in the application area. All the machines should be explosion proof
- Workers should be in good precaution, avoiding the material spraying to skin and eyes

## Statement of responsibility

Welcome to use our product. Please read the related data sheet before usage. The technical information and the application advice are all based on our experience, knowledge, and confidence. Because of the different ambiance, material, job site, and usage, we can not provide any guarantee for the project quality. But we are responsible for our product quality.

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