

UREA-based, cold processable waterproofing membrane for manual application.

## DESCRIPTION

UREAFLEX FL CRISTAL CLEAR COATING is a cold-applied, two-component, hand-applied, solvent free system. Based on isocyanates and special amines, it is particularly suitable for protecting and waterproofing substrates such as concrete, tiles etc. This coating is transparent, highly abrasion- and UV resistant and combines outstanding features with user-friendly application. Easy to apply by hand (brush, scraper) or with a roller.

## AREAS OF APPLICATION

- Protection of concrete surfaces.
- Car parking lots.
- Pedestrian decks.
- Industrial flooring.
- Garage floors.
- Terraces and balconies.
- Sewerage treatment plant.
- Effluent treat.
- Petrochemical / refineries.
- Port / harbour / airport.
- Water treatment plants.
- Hangars.
- Spillways.

## APPLICATION PRESCRIPTIONS

- **Preparation of the surfaces**  
Surface preparation is essential for optimum finish and durability. The treated surface must be clean and free from dust, dirt, fats, oil or other contamination (previously applied coatings and / or loose paint). The moisture content should not exceed 5%. Possible surface irregularities (holes, cracks, tears) must be restored and/or smoothed or treated with a self-levelling product. New concrete surfaces should dry for at least a month. After cleaning the surface, prepare with UREAFLEX FL CLEAR PRIM (see TDS UREAFLEX FL CLEAR PRIM).
- **Preparation of the product**  
Add 2 buckets of component B to 1 bucket of component A (make sure both canisters of the B component are as empty as possible). Mix by low speed, to avoid incorporation of air, with a mechanical stirrer for about 1 minute. Make sure both components A and B are mixed homogeneously, taking attention to walls and bottom of the recipient. Component A and component B are pre-dosed.
- **Application**  
Pour the mixture on the surface and spread evenly with a roller, a rubber scraper or a brush until the desired layer thickness. For slip-free surfaces, manually spread enough dry quartz sand over the surface to be treated until there is a rough surface on which a second layer of coating firmly attaches. Allow to cure. UREAFLEX FL CRISTAL CLEAR COATING cures faster at higher temperature and higher humidity. Remove excess sand particles with a vacuum cleaner. Apply a second layer of UREAFLEX FL CRISTAL CLEAR COATING within 24 hours so that the sand grains are well embedded. Use dry quartz sand with a particle size of 0,60 mm to 1,2 mm or larger if required.
- For more information, consult the manual "Processing instructions Ureaflex systems".

## PRODUCT FEATURES

UREAFLEX FL CRISTAL CLEAR COATING is a coating with high mechanical properties that creates a strong and hard membrane. The coating can be applied at lower temperatures (min. -5 °C). In that case, the components have to be higher than 15 °C before the start of application to retain self-levelling capabilities. Low temperatures (< 5°C) delay the curing and high temperatures accelerate the curing (> 30°C). Do not leave the mixed product in the mixing drum for more than 10 minutes, as the exothermic reaction accelerates the curing. On the surface, the mixture can be rolled out for up to 15 minutes. Thicker layers need more time to cure. High humidity will shorten the curing time. Light pedestrian traffic is possible after 24 hours, heavy traffic after 48 hours.

## ADVANTAGES

- Seamless membrane.
- 100% UV stable, no yellowing.
- Transparent coating.
- High gloss finish.
- High abrasion and scratch resistance.
- High stain and chemical resistance.
- High tolerance to heat.
- No VOC.
- Flexible with a high impact resistance.
- Strong bond to different substrates.

## TECHNICAL DATA

| UREAFLEX FL CRISTAL CLEAR COATING | Value                 |         | Unit              | Standard    |
|-----------------------------------|-----------------------|---------|-------------------|-------------|
|                                   | A                     | B (iso) |                   |             |
| Specific weight                   | 1,065                 | 1,11    | g/cm <sup>3</sup> | ASTM D 0891 |
| Mixing ratio A / B                | 100 / 110             |         | kg                |             |
| Solids                            | none                  |         | %                 |             |
| Work time                         | 15                    |         | min               | ASTM D 638  |
| Tack free time                    | 40                    |         | min               |             |
| Adhesion on concrete              | >3 (concrete failure) |         | N/mm <sup>2</sup> | Elcometer   |
| Hardness                          | 65-70                 |         | Shore D           | ISO 868     |
| Angle tear                        | 86                    |         | N/mm <sup>2</sup> |             |
| Tensile strength                  | 19,6                  |         | MPa               |             |
| Elongation                        | 152                   |         | %                 |             |

## CONSUMPTION

1,1 kg/m<sup>2</sup> per mm thickness, depending on the surface. Recommended thickness for self-levelling is 2 mm.

## PACKAGING

- 1 set = 10,5 kg;
- 1 packaging A component of 5 kg; and
  - 2 packagings B component of 2,75 kg

**STORAGE**

The product must be stored in a cool and dry place, away from direct sunlight and at a temperature between 5 °C and 30 °C. Shelf life of 12 months.

**USER'S LOG**

UREAFLEX FL CRISTAL CLEAR COATING is a TRANSPARENT coating system for the professional user. In order to make any claim on the product quality, the user is obliged to complete the user's log. The technical support of LDS Construct can assist with specific questions or usage advice.

**SAFETY AND HEALTH PRECAUTIONS**

For information regarding safety and health precautions, please consult the safety data sheet.