

## A SOLVENT-FREE, SELF-LEVELLING FLOORING BASED ON HYBRID POLYURETHANE

### KEY BENEFIT SUMMARY

- Good chemical resistance with Topcoat finish
- Waterproof and non porous
- Odourless
- Thickness : minimum 2 mm ; maximum 3 mm

### PRODUCT INFORMATION

#### **Description**

Monopur® Industry SL is a predosed, three component, self-levelling flooring based on hybrid polyurethane.

#### A Component :

A polyol emulsion

#### B Component :

A polyisocyanate curing agent

#### C Component:

A coloured mix of quartz, cement and additives

#### **Usage**

Monopur® Industry SL has good thermal, mechanical and chemical resistance. Monopur® Industry SL is designed to be used in the food industry.

#### **Packaging**

Prepacked units of 17.1 kg to facilitate mixing.

Colour : grey, cream, buff, red and green.

### USAGE GUIDELINES

#### **Surface preparation**

Monopur® Industry SL can be applied on concrete and polymer modified screeds.

For other substrates consult RPM/Belgium N.V. / Alteco Technik GmbH.

#### Surface condition :

The substrate should be installed according to established engineering practice for substrate to receive an industrial polymer based floor system.

Surface preparation is the most vital aspect of all flooring applications.

The preparation operations should be delayed until shortly before the Monopur® Industry SL is to be applied to avoid the risk of fresh contamination or further accumulation of dirt. To avoid rising humidity or pressure of groundwater, make sure a waterproofing membrane exists below the substrate.

#### For new concrete and screeds:

A mechanical treatment (scabbling or shotblasting) is always necessary to remove laitance and to obtain an open surface for a good adhesion. All loose debris and dirt should be removed.

#### For old concrete and screeds:

Degreasing in case of oil and fats.

Never use solvents, they tend to push oil into the concrete.

In case of serious contaminations, Acetylene flame cleaning followed by mechanical treatment is required. For a good adhesion, a mechanical scabbling or shotblasting is always necessary to obtain a porous substrate. All loose debris and dirt should be removed.

The substrate temperature should be at least 3°C above the dew point during application.

#### Properties of the substrate:

Age:	Concrete & screeds	28 days
Compressive strength after 28 days:	Concrete	≥ 30 N/mm <sup>2</sup>
	Screeds	≥ 25 N/mm <sup>2</sup>
Moisture content:	< 6%	
Slope:	Maximum 25 mm/m	
Tensile strength:	1.5 MPa	

Anchorage grooves are needed wherever there is a free edge of the Monopur® Industry Floor Systems.

## Priming

Prepared concrete substrates are to varying degrees porous. If Monopur® Industry SL is applied directly to prepared concrete, air displaced from the concrete can rise and cause defects in the finished floor. Monopur® Industry Primer, a 3 component hybrid polymer based primer without solvents, is important and recommended. Apply Monopur® Industry Primer with a consumption of 0.35 - 0.5 kg/m<sup>2</sup>. The still wet prime coat is sprinkled with quartz size 0.4 – 0.8 mm at ± 150 g/m<sup>2</sup> to improve the adhesion and application of Monopur® Industry SL Mortar.

## Wear layer

### Mixing and application of Monopur® Industry SL:

Full details of correct mixing and application procedures are given in the Monopur® Industry Installation Manual (IM GB 33) which is available to licensed and specialist applicators only.

Liquid components A and B are poured into the mixing pail and stirred for 30 seconds. Make sure that packagings are completely emptied before mixing. When the liquid resin mix is homogeneous, half the C component is added and mixed for around 1 minute until the mix is homogeneous. Ensure that half of the C component is thoroughly made wet with resin. Then repeat by adding the other half of the C component. The mixing time may vary slightly depending on ambient and material temperature. When the mix is homogeneous with no lumps, bring the material to the workplace without delay. The material is levelled, each mix being well connected to the previous one.

To obtain a smoother surface and remove trowel marks the upper surface of the SL must be spike rolled.

### Remarks:

For the best mixing results we recommend the use of a forced mixer with a dispersing disc. The ideal ambient and application temperatures range between +12°C and +25°C. It is important to consider the dew point effect to avoid moisture on the primer.

## Coverage

E.g.: for a thickness of 2 mm: ± 4.38 kg/m<sup>2</sup>.

## Cleaning

Clean tools with solvent immediately after application.

## STORAGE

All parts of Monopur® Industry SL System should be stored under cover and free of the ground, in dry conditions above 5°C and below 25°C. This is especially important for the C component to prevent them becoming hard and lumpy and unsuitable for use. Keep all parts free from freezing even during transport.

Exposure to direct sunlight or other intense heat sources will cause uneven temperature gradients in the stored material; such product must not be used until the temperature has become uniform, otherwise application inconsistencies may arise.

## SHELF LIFE

In unopened packaging: 6 months.

## HEALTH AND SAFETY PRECAUTIONS

Product- and Safety Data Sheets must be read and understood.

## TECHNICAL SERVICE

Contact RPM/Belgium N.V. / Alteco Technik GmbH.

## GUARANTEE

RPM/Belgium N.V. and Alteco Technik GmbH warrant all goods to be free from defects and will replace materials proven to be defective but make no warranty as to appearance of colour. The information and recommendations herein are believed by RPM/Belgium N.V. and Alteco Technik GmbH to be accurate and reliable.