

## **VogaPU Crete50**

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VOGEL SYSTEMS Technical data sheet

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Product: **VogaPU Crete50**

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### **1. Identification**

#### **Product identifier**

**VogaPU Crete50**

#### **Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: Product for construction chemicals Recommended use: for industrial and professional users



#### **Details of the supplier of the safety data sheet**

E-mail address: [info@vogel-systems.de](mailto:info@vogel-systems.de)

#### **Emergency telephone number**

International emergency number

## Heavy duty polyurethane floor screed

### DESCRIPTION

**VogaPU Crete50** is a lightly textured, heavy-duty resin floor with very good resistance to aggressive chemicals, heavy impact and temperatures up to +150 °C.

### APPLICATION FIELDS

**VogaPU Crete50** is a slip-resistance and excellent resistance to a wide range of chemicals including organic acids found in food stuffs. It is a coloured high-build polyurethane and provides a durable and very safe monolithic floor finish ideal for applications in the industrial food and beverage, pharmaceutical and chemical industry.

### ADVANTAGES

- 1.Excellent resistance to aggressive chemicals.
- 2.Unlikely to taint food stored in close proximity to material.
- 3.Cured for 24 hours at 20°C.
- 4.Profiled slip resistance providing low potential for slip.
- 5.Good cleanability.
- 6.Withstands steam cleaning (when installed at 8mm).
- 7.Hygienic.

### USES

**VogaPU Crete50** is designed for heavy duty areas of potential spillage, increased temperature range, (-40°C to +120°C at 8mm), and offers excellent resistance to impact or abrasion.

- Food processing.
- Bakeries – Dairies.
- Abattoirs / meat processing plants.
- Chemical processing.
- Commercial kitchens.
- Food and drink preparation, production and storage.
- Chemical and pharmaceutical production and storage

## APPLICATION INSTRUCTIONS

### • Surface Preparation

- remove weak laitance and provide a surface key for the coating. If this is not possible, chemically etch with, then rinse thoroughly and allow to dry.
- Metal – use a shot-blaster to prepare the surface to SA2.5 (bright steel) and primed .
- To give a professional finish, we advise joints are cut into the floor around the perimeter of the substrate, to give the screed an anchorage. The joints should be about 20mm wide and 8mm deep and about 150mm from the edge.

### • Mixing

- Once the surface has been thoroughly prepared, a suitable primer has been applied, and the surface is tack free.
- Prior to mixing, the temperature of the three components must be between 15°C and 25°C. Stir the individual components before mixing together. Add Part 'B' to Part 'A' and thoroughly mix for at least 1 minute. Steadily add the aggregate whilst continuing to mix. Mix thoroughly for 3 minutes once all the aggregate has been added.
- For best results use a heavy duty slow speed drill (300 - 400 rpm) with a mixing paddle.

### • Application

- Once fully mixed, apply the product between the battens (if necessary) and level with a steel float. If a smooth finish is required (to assist cleaning), back-roll with a short pile roller.

### • Application conditions

- Normal application temperature is between +15°C and +25°C. Air humidity must not exceed 90%. **VogaPU Crete50** should be room temperature when applied, if the product is warmer than usual, pot life and curing times will be greatly reduced. Similarly, times will be greatly extended in colder applications.

### • Cleaning

- Tools and equipment should be cleaned whilst resin is still wet with Solvent Cleaner.
- Hands and skin should be cleaned immediately with Organic Hand Cleaner.

**TECHNICAL DATA**

Product characteristics	
<b>Composition</b>	Water-based polyurethane cement hybrid
<b>Colour</b>	Red, Orange, Yellow, Cream, Grey, Green, Light Green, Green/ Brown, Blue.
<b>Density</b>	2.09 kg/l
<b>Compressive strength</b>	52 - 55 N/mm <sup>2</sup>
<b>Modulus of elasticity in compression</b>	3250 MPa
<b>Flexural-strength</b>	14 N/mm <sup>2</sup>
<b>Tensile strength</b>	6 MPa
<b>Coefficient of thermal expansion</b>	4 × 10 <sup>-5</sup> °C <sup>-1</sup>
<b>Skid / slip resistance</b>	R 11
<b>Reaction to fire</b>	Class Bfl-s1

**CONSUMPTION**

Estimated consumption **VogaPU Crete50** is ≥ 12.5 kg/m<sup>2</sup> for 6 mm

≥ 19.0 kg/m<sup>2</sup> for 9 mm

≥ 25.0 kg/m<sup>2</sup> for 12 mm

**STORAGE**

Twelve months in its unopened original packaging. Store in a cool, dry and covered place, protected from moisture, frost and direct sunlight, with temperatures between 5 °C and 30 °C.

**SAFETY AND HEALTH**

**VogaPU Crete50** is a non-toxic product but direct contact with skin and eyes must be avoided. Use rubber gloves and safety goggles when handling, mixing and applying the product.

- If ingested seek medical advice.