

VogaPU crete40

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VOGEL SYSTEMS Technical data sheet
Date / Revised: 19.09.2018
Product: **VogaPU crete40**

Version: 1.0

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1. Identification

Product identifier

VogaPU crete40

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

Company:
VOGEL SYSTEMS
Operating Division Construction Chemicals

E-mail address: info@vogel-systems.de

Emergency telephone number

International emergency number

Heavy duty, high strength, polyurethane Flooring system

DESCRIPTION

VogaPU Crete40 is a Polyurethane resin floor with high resistance to aggressive chemicals. It is designed to provide excellent resistance to abrasion, impact, chemical attack and other physical aggression. It provides a smooth protective floor finish suitable for applications in predominantly dry environments. Typically installed at 6 to 9 mm thickness.

APPLICATION FIELDS

In areas subject to high chemical exposure, to provide a hard wearing surface, such as in:

1. Food processing plants, in wet or dry process areas, freezers and coolers, thermal shock areas .
2. Food and beverage production.
3. Chemical plants .
4. Pharmaceutical production .
5. Workshops & Laboratories .
6. Suitable for physical resistance .
7. Suitable for chemical resistance.

ADVANTAGES

1. heavy duty modified PU trowel grade screeds>
2. Resists a wide range of organic and inorganic acids, alkalis, amines, salts and solvents. (check our chemical chart)
3. Wide range of application temperatures - +40 °C .
4. Jointless. expansion joints are not necessary .
5. Fast application /rapid access - Can be applied to 4-day-old concrete/2-day-old polymer screeds .
6. Short curing time .

APPLICATION INSTRUCTIONS

1. Surface must be sound, clean and dry, free from dust, laitance, and other contaminants and have a minimum tensile strength of 1.5 MPa .
2. Surface to be prepared by shot blasting or any approved mechanical means.
3. Sweep or vacuum any dust or loose particles.
4. All joints in the substrate subject to movement should be sealed with a suitable sealant **VOGAFLEX** .
5. Prime and seal the porosity of the substrate with one coat of the same material .

TECHNICAL DATA

Product characteristics	
Density, (kg/m³)	1942
Mixing ratio for A:B by weight (kg:kg)	Part A : B : C = 1 : 0.86 : 7.76
Hardness, Shore D	80 ±5
Temperature / Relative Humidity , (°C / %)	85% max
Coefficient of Thermal Expansion -20°C to +60°C	$\alpha \approx 2.7 \times 10^{-5}$ per °C
Waiting time between coats at 20 °C,	12 hours
Flexural Strength (MPa)	22 N/mm²
Tensile strength (N/mm²)	9
Compressive Strength, 0.2% offset, psi	48-55
Concrete Adhesion	Concrete Failure
Abrasion resistance, (mg)	128
Coeff. Thermal Expansion	3.4×10^{-5} °C-1
Thermal Conductivity	0.7 W/m°C
Surface Resistivity	2×10^{11} ohms
Water Adsorption	0 mL
Permeability	To Water Vapour: 0.139 g/h/m²
Fire Rating	Class B(fl) S1
Bond Strength	> 1.85 N/mm²
Chemical Resistance	Resistant to many chemicals
Softening Point	>170°C
Potlife at 20 °C,	~ 18 - 22 minutes
Curing time (Full cure)	7 days

COLORS

VogaPU Crete40 is available in Grey, Light grey , Dusty grey, Cream, Yellow, Orange, Red, Blue, Light green colors , Beige and Sky blue.

CONSUMPTION

Estimated consumption **VogaPU Crete40**

8-10 kg/m² per coat with an average thickness of about 4 mm.

CLEANING

Tools and equipment should be cleaned, immediately after use, with solvent. Once product cures, this can only be removed by mechanical means.

PACKAGING

VogaPU Crete40 is supplied in three-component sets of (A+B+C) in 25 kg drum.

SAFETYAND HEALTH

VogaPU Crete40 is a non-toxic 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.

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.

Limitations

1. Do not apply to polymer modified cement mortars.
2. Do not apply to water soaked, glistening wet concrete substrates.
3. Do not apply to porous surfaces where significant moisture vapour transmission (out-gassing) will occur during application .
4. In some slow curing conditions, soiling of the surface may occur when opened to foot traffic, even though mechanical properties have been achieved. It is advised to remove dirt using a dry mop or cloth. Avoid scrubbing with water for the first three days.