

PUCRETE HF

Heavy Duty 3K Polyurethane Screed for Aggressive Environments

**V
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TEX**

Formerly Pagel Pakistan Pvt. Ltd.

Description

PuCrete HF is a polyurethane based seamless floor screed with exceptional resistance to aggressive environment, chemicals, mechanical stress and temperature.

- Very high impact and abrasion resistance for long service life even in the most demanding areas.
- Very good chemical resistance to organic acids, diluted mineral acids, vegetable and animal fats. Resists petroleum oil and solvents.
- Anti-slip surface.
- High thermal shock resistance with wide service temperature range of -40°C to 120°C.
- Freeze-thaw resistant.
- Hygienic- Contains state of the art anti-microbial additives. Impermeable to dirt and water, along with non-tainting properties.
- Low VOC – Does not taint food and ensures wellbeing of personnel.

Recommended Uses

- Used in situations subject to constant chemical exposure and mechanical stresses.
- Industrial freezers.
- General Production areas and warehouses.
- Beverage, food production and processing units.
- Chemical plants.
- Pharmaceutical plants.
- Industrial and commercial kitchens.



We use state of the art silver-ion antimicrobial agent, from Argenol Laboratories, which are added as an integral part of the floor. All our floor systems are designed in conjunction with Argenol.



ADMIXTURES

SPECIAL ADMIXTURES

SURFACE IMPROVEMENT

GROUTS

WATERPROOFING

FLOORING

INDUSTRIAL COATINGS

JOINT SEALANTS

REPAIR/CRACK INJECTION

TILING SYSTEMS

Technical Data

	Polyurethane		PUCRETE HF
Type			Available in many RAL Colours
Color			1:1
Mixing Ratio		A:B:C	2.3
Density (23°C/50% rel. Humidity)	BS 6319 : Part 5	Kg/mm ²	60
Compressive Strength	(BS6319)	N/mm ²	20
Flexural Strength	(BS6319)	N/mm ²	10
Tensile Strength	(BS6319)	N/mm ²	
Viscosity (A:B)	28°C	mPAS	500 - 1000
Coating Thickness		mm	6 - 9
Adhesive Bond Strength	(BS6319)		Concrete failure
Shore A / Shore D		D	80 - 82
Abrasion resistance	ASTM D4060 Taber	Abrader	50mg loss per 1000 cycles using C17 Wheels.
Chemical Resistance	Excellent resistance to sugars and most acids (organic and inorganic)		
Vapor permeability	ASTM E96:90	24 Hr (g/m ²)	3
Water permeability	Karsten Test		Nil (impermeable)
Thermal resistance		6mm	-25°C to 90°C
		9mm	-40°C to 120°C
Impact resistance	BS8204 Part1 Cat:A	Dry	(<0.5mm)
Slip resistance	BS6677:Part 1 1986	Wet	100
		W/m. °C	Min 35
Thermal conductivity	BS 874	°C-1	1.1
Thermal expansion			2 - 6 x 10 ⁻⁵

Important Information:

Supplied in:	25 kg units.
Storage:	Dry, frost free area. Out of direct sunlight.
Shelf life:	12 months.
Hazard Class:	No dangerous goods. Consult MSDS for details.

Application Guidelines

Surface preparation:

Anything that can impair adhesion must be removed including any grease, oil, dust, curing compounds or any previous coating using grit ballasting, milling or grinding. Mechanical wire brush can be used for small areas. The aggregate must be exposed and any repair must be done prior to application using Vertex epoxy repair system. It is recommended that a suitable water-based primer such as Vertex EpoPrime EH2 be applied to the prepared surface with a medium pile roller for priming/sealing the surface.

Mixing:

Pour the Part B into the Part A and mix using a slow speed mixer (300-600 RPM), then pour the aggregate in the mixture until homogenous. Make sure the material at the bottom and sides of the container are well mixed.

Application:

Apply the mixed material using a pin screed, notched trowel or steel float and spread to the required level. The material should be rolled with a spiked roller to release entrapped air and removal of trowel marks. Rolling should be continued until all air entrapped is released. The applicator should always wear spiked shoes when walking on the material. Rolling should stop before the gel time is achieved.

Curing:

The curing of reactive polymers is affected in particular by the ambient temperature and sub-surface's temperature. Low temperatures slow the polymer's chemical reaction prolonging time for second coat and vice versa.

The information provided in this leaflet is supplied by our consulting service and is the end result of exhaustive research and extensive experience. However, it is without any liability on our part particularly regarding third party proprietary rights. This information does not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. The data presented was derived from tests under normal climate conditions according to DIN 50014 and mean average values and analysis. Deviations are possible when delivery takes place. Given the recommendations may differ from those shown in this leaflet, written confirmation should be sought. It is the responsibility of the purchaser to ensure they have latest leaflet issue and that its contents are current. Our customer service staff will be glad to provide assistance at any time. We appreciate the interest you have shown in our products. This technical datasheet supersedes previously issued information.

VERTEX
Chemicals (Pvt.) Ltd.

Plot # 1-A Misc Zone,
Value Addition City,
Sahianwala Road Khurriwala,
Faisalabad, Pakistan.

Phone: +92 (0) 41 8507212-13
Fax: +92 (0) 41 850 7214
Email: info@vertexchemicals.pk
Website: vertexchemicals.pk

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