

VOGA PHATIC-F

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VOGEL SYSTEMS Technical data sheet
Date / Revised: 19.09.2018
Product: **VOGA PHATIC-F**

Version: 1.0

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1. Identification

Product identifier

VOGA PHATIC-F

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

ELASTIC , ALIPHATIC , LIQUID POLY-UREA MEMBRANE

DESCRIPTION

VOGA PHATIC-F is a two part, aliphatic, solvent free, low VOC , cold-applied polyurea membrane with total UV resistance and color stability, suitable for waterproofing and protection of concrete and outdoor areas.

APPLICATION FIELDS

- Protection coating on many surfaces such as concrete, steel, wood, Plastic...etc.
- Industrial facilities.



- Chemical resistance Linings for secondary contaminated areas



- Marine facilities and construction



- Waterproofing for both water and water treatment retaining structures.
- Waterproofing of submerged area like swimming pools, artificial lakes.... etc.
- Waterproofing and protection coating system on car park decks, roofing* ...etc.



ADVANTAGES

1. Very low VOC .
2. Cold applied by manual or spray methods.
3. Reduces footfall sound .
4. Permanently elastic .
5. Good mechanical resistance to water, seawater, wastewater, fuels, grease and oils, deicing salts, diluted alkali and acid solutions, etc.
6. Very high yellowing resistance Decorative designs possible using colored chippings etc.
7. Low maintenance finish .
8. Solvent free , Comfortable and Easy to apply.

APPLICATION INSTRUCTIONS

- Surface must be sound, clean and dry, free from dust, laitance, and other contaminants.
- Surface to be prepared by shot blasting or any approved mechanical means.
- Sweep or vacuum any dust or loose particles to remove any laitance and achieve an open textured surface.
- Expansion joints once opened up and clean, should be treated with sealant from VOGAFLEX® .
- Prime and seal the porosity of the substrate with one coat of the VOGAFLOOR 120 ® PRIMER solvent-free primer

APPLICATION

- **VOGA PHATIC-F** is poured and spread evenly by means of a serrated trowel or pinrake.
- If desired broadcast slightly and evenly with VOGA QUARTZ ® .
- If during application some imperfections become visible, this spot can be treated immediately with a spike roller to eliminate the imperfection.
- The film thickness shall be within the minimum and maximum levels specified. Dry thickness .

TECHNICAL DATA

Product characteristics	
Density, (g/cm³)	1.12
Mixing ratio for A:B by weight (kg:kg)	1:1
Hardness, Shore D	45 ±5
Solid Content	~ 100% (by volume) / ~ 100% (by weight) 1
Temperature / Relative Humidity , (°C / %)	10-40/85
Coefficient of Thermal Expansion -22° to 86°F, in.in./°F -30° to 30°C, in/in/°C	1.04 x 10 ⁻⁶ 18.7 x 10 ⁻⁶
Drying time to touch at 20 °C, (h)	1-2
Recoating time at 20 °C, (h)	1-3
Elongation at break, (%)	368
Tensile strength (N/mm²)	~ 25
Tear resistance, (N/mm)	60
Drying time to touch at 20 °C, (h)	1-2
Peel off strength , (N/mm) - concrete	~5.2
Pull of strength , (N/mm) - concrete	~1.8
Volume abrasion (mm³)	120
Abrasion resistance, (mg)	138
Flexural strength	6.9
Anti-Root resistance	yes
Methane transmission rate	93
Crack bridging , (mm)	~16.2
Substrate Temperature	-10°C min. / +50°C max.

CONSUMPTION

Estimated consumption **VOGA PHATIC-F**

0,4 - 0,5 kg/m² per coat, for a total consumption of 0,8 - 1,0 kg/m² in two coats (0,8 - 1 mm thickness approximately).

CLEANING

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

PACKAGING

VOGA PHATIC-F is supplied in two-component sets of 400 kg (A + B) in 200 kg drum , It is available in grey color. Others colors upon special request.

SAFETYAND HEALTH

VOGA PHATIC-F 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.

STORAGE

Six 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.