



TECHNICAL SHEET



Product name:

DENAFLUOR PPage: 1/2
Date: 25.8.2014

Characteristics:	impregnation and hydrophobic agent
Description:	It repels water and reduces the absorption capacity of the substrate. It strengthens the substrate, reduces its surface porosity and enhances abrasive resistance. It reduces the dirt pickup of the substrate. It has a minimal effect on the increase in the diffusion resistance of the treated material. It features long duration both in the interior and on the exterior. It is re-coatable with common types of paints. The transparent version does not alter the look and the color of the substrate. The pigmented version unifies the color scheme of the substrate like glazing varnishes; it does not achieve the covering properties of paints and enamels.
Composition (general):	a mixture based on acrylic and siloxane polymers
Application:	A hydrophobic and impregnation preparation intended for the impregnation of silicate substrates and other construction materials before the subsequent coatings or, like the finish, to reduce water absorption capacity and surface strengthening.
Shades:	Produced as transparent or pigmented in the agreed color shades.

Properties:	Paint:
Density (g/cm³):	1.01
Volume solids ONL (%):	20 - 30
Weight solids (%):	25 - 35
VOC (volatile organic compounds) (kg/kg):	0.03 – 0.05
0.006 TOC (total organic carbon content) (kg/kg):	0.02 – 0.03
Maximum permissible value of VOC content (g/l):	30
Max. VOC content in the product in the ready-to-use condition (g/l):	29
water-thinnable paint category:	A/h - penetration coatings
pH (at 20 °C)	7-9
Appearance/color:	Liquid with a white-blue turbidity
Viscosity/Flow time (s):	F4=11
Miscibility:	Miscible with water
Water vapor permeability - class I. (m):	Sd < 5 *)
Liquid water permeability (kg/m² · h^{0.5}):	w < 0,05 *)
Impact resistance - class III. (Nm):	> 20 *)
Resistance to temperature cycling - adhesion (MPa):	> 1.5 *)
Consistency by tearing test (b):	>1.5 (1.0) *)

Substrate preparation:	The substrate must be dry, free from any mechanical and greasy impurities. For new concretes, protruding cement grout and incoherent surface layers must be removed. Cleaning of the substrate using pressure water, regrinding and/or blasting are recommended.
Application conditions:	The temperature for the coating and drying of the substrate must not fall below +10 °C. The product must not be applied on the exterior if the weather is not certain, before rain or in the direct sun in summer months.
Thinning:	Before application, thin with water at a weight ratio of 1:2; before thinning, the concentrate must be thoroughly mixed.
Recommended method of application:	Air spray painting, high-pressure spray painting, with a brush or a roller
Recommended coating system:	DENAFLUOR P + DENASIL; DENAFLUOR P + DENAPOX B; DENAFLUOR P + FLEXIDEN 35 DENAFLUOR P + EPOXIDEN B
Application	To be applied on the surface with a paint brush, a paint roller or by spray painting in such an amount to be

*) - tested as a part of coating systems




TECHNICAL SHEET



Product name:

DENAFLUOR P

Page: 2/2
Date: 25.8.2014

data:	completely soaked into the substrate. If applied to any horizontal substrates, no puddles of the impregnation agent can remain on the surface; on vertical surfaces, it cannot run down. To be applied to a dry substrate in two or multiple layers, using the system "wet in wet", until the substrate is saturated (it must completely soak into the substrate).
Spreading capacity and recommended thickness:	The indicative spreading capacity of the concentrate is 0.02 - 0.08 kg/m ² at the optimum thickness of 50 µm. The consumption depends on the type of the treated substrate, its absorptive capacity and roughness.
Packaging:	Packages of 1 kg, 3 kg.
Storage:	Store in original and well-closed containers in cool, dry and well-ventilated areas at a temperature from +5 to 25 °C. Protect from freezing. Keep the mixture separated from drinks, foodstuff, feedstuff and medicine. Store away from the reach of children. The shelf life is a minimum of 36 months from the date of manufacture. The product must not freeze.
Disposal of packaging and waste:	Product residues and contaminated packaging shall be disposed of as hazardous waste in accordance with the applicable regulations.
Safety and hygiene:	Causes skin irritation. May cause sensitization by skin contact. Keep out of the reach of children. Do not breathe spray. Avoid contact with skin and eyes. Wear suitable protective gloves and eye/face protection. If swallowed, seek medical advice immediately and show this container or label. Use only in well-ventilated areas. Observe the principles of personal hygiene. If on the skin, wash the affected areas with water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, rinse mouth with water, do not induce vomiting and get medical attention.
Legislation, certificates, attestations, other tested parameters:	<div style="border: 1px solid black; padding: 10px; text-align: center;"> 1020 13 EN 1504-2</div>

*) - tested as a part of coating systems