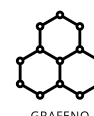


NANObarp Anti-RADÓN

Waterproof coating based on graphene nanoparticles that limit the penetration of radon gas from the ground into the interior of the building.

Formulated with high-quality elastomers.



TECHNICAL SPECIFICATIONS

COLOUR UNE EN ISO 3668
Black.

SHINE UNE EN ISO 2813
Glossy.

SPECIFIC WEIGHT UNE EN ISO 2811-1
1.300 ± 0.05 kg/l.

SOLIDS BY WEIGHT UNE EN ISO 3251
Black: 60 ± 2%.

VISCOSITY RATING UNE EN ISO 2884
350 ± 50 P (H6, 10 rpm at 20°C).

THEORETICAL PERFORMANCE
2-4 m²/l per coat, depending on the condition and structure of the surface.

PRESERVATION AND STABILITY OF THE CONTAINER
Excellent for up to 1 year in the original and unopened container, under normal temperature and humidity conditions.

VOCs (g/l)
2004/42/IIA(i)(140) Max. VOCs 10 g/l



APPLICATION INSTRUCTIONS

APPLICATION EQUIPMENT
Brush, roller, and airless.

TOUCH DRY
2-4 hours (depending on thickness and ambient conditions).

RECOMMENDED FOR

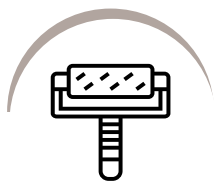
As a protective barrier against radon gas in interior floors and walls. The product is recommended for areas where the radon concentration exceeds 300 Bq/m³.
For the waterproofing of terraces, roofs, rooftop areas, roof tiles and party walls.

RECOMMENDED COAT THICKNESS

1 mm on horizontal surfaces (*the effectiveness of waterproofing largely depends on the applied thickness*).
For anti-radon effect, apply: 0.460 l/m²

REPAINTING

14-18 hours, depending on ambient humidity and temperature.



APPLICATION INSTRUCTIONS

APPLICATION TEMPERATURE

Above 5°C.

AMBIENT RELATIVE HUMIDITY

Below 80%.

SUBSTRATE TEMPERATURE

Above 5°C.

SUBSTRATE MOISTURE

Below 6%.

NUMBER OF COATS

Successive until the recommended thickness is reached.

REPAINTING

14-16 hours depending on the ambient humidity and temperature

BRUSH

First coat, dilute approximately 20%. The others ready to use or slightly diluted (max. 5%). Thinner: Water.

ROLLER

First coat, dilute approximately 20%. The others ready to use or slightly diluted (max. 5%). Thinner: Water.

SPRAY GUN

Depending on the nozzle and pressure. Wide nozzles are recommended. Thinner: Water.

REPAINTABLE

Repaintable with any type of floor paint after applying Water-Based Epoxy Primer (Ref. J6744)

CLEANING THINNER

Water.

CLEANING OF UTENSILS

Clean immediately after use with water.



PROPERTIES

- ✓ With graphene nanoparticles.
- ✓ Non-asphaltic elastic coating.
- ✓ Vapour-permeable.
- ✓ Can be coated with structural elements.
- ✓ Film resistant to fungi growth and gas penetration.
- ✓ Low VOC content.
- ✓ Ease of application.
- ✓ Solves problems caused by water leakage and accumulation.
- ✓ When dry, it forms a continuous, elastic, waterproof and protective membrane that adheres perfectly to the substrate.
- ✓ Absorbs the stress and deformations of the surface where it is applied.
- ✓ Penetrates deeply into cracks and fissures.
- ✓ Can be applied over large areas without joint problems.
- ✓ Resistant to the alkalinity of substrates, to weathering and to changes in temperature.
- ✓ Very permeable to the substrate's internal moisture.
- ✓ CE marking



INSTRUCTIONS FOR USE

- ✓ Stir the contents of the container well.
- ✓ Apply with proper ventilation, in uniform and well-distributed coats.
- ✓ It is recommended that both an ascending and descending perimeter groove is applied on surrounding walls to integrate the coating seamlessly, enhancing waterproofing and preventing leaks at floor-wall joints.
- ✓ Do not apply at temperatures below 5°C.
- ✓ Do not apply during fog or rain.
- ✓ Do not apply with ambient relative humidity above 80%.
- ✓ It is not advisable to apply in bright sunshine or with high substrate temperatures.
- ✓ Applicable with different thicknesses, according to the required needs.
- ✓ For surfaces with poor adhesion, apply Sellafond before (Ref. 1764)



DRYING / POLYMERIZATION

AIR DRYING (20°C AND 80% RH)

2-4 hours (100 µm wet film thickness)

DRYING FOR PHYSICAL TESTS

15 days.

MINIMUM REPAINT INTERVAL

12-14 hours depending on ambient temperature and humidity



PHYSICAL-CHEMICAL RESISTANCES

TEST TUBE

Concrete and derivatives.

WATER VAPOUR PERMEABILITY

Class II: $5 \text{ m} \leq S_d \leq 50 \text{ m}$.

DRY FILM THICKNESS UNE EN ISO 2808

1 mm recommended.

CAPILLARY ABSORPTION AND WATER PERMEABILITY

$W \times 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

ADHERENCE (CROSS-CUT TEST) UNE EN ISO 2409

GT < 2.

ADHESION TEST (PEEL-OFF METHOD)

Flexible systems: 0.8 N/mm^2 (without traffic loads)



GENERAL INFORMATION

PACKAGING

15 L.

STORAGE

Store in a cool place, protected from frost and high temperatures.

OBSERVATIONS

- Stir the contents of the containers before use.
- For toxicological standards, consult the safety data sheet.
- Apply with proper ventilation.
- Store in a cool, dry place, protected from frost.



CERTIFICATES

Barpimo's anti-radon paint is tested according to the Test Method for Determination of the Radon Diffusion Coefficient. The radon diffusion coefficient has been determined in accordance with the accredited methods described in the:

ISO/DTS 11665-13 Standard. Measurement of radioactivity in the environment -- Air: radon 222 -- Part 13: Determination of the diffusion coefficient in waterproof materials: membrane activity concentration testing method on both sides.

The **experimental method** consists of placing the sample between two airtight containers, and two radon detectors continuously measure the concentrations on both sides of the tested samples. The diffusion coefficient calculation is based on the numerical solution of the diffusion equation that describes the transport of radon through the tested material.

This paint has a **radon diffusion coefficient of: $7.2 \cdot 10^{-13} \text{ m}^2/\text{s}$** .

Certificate available upon request.

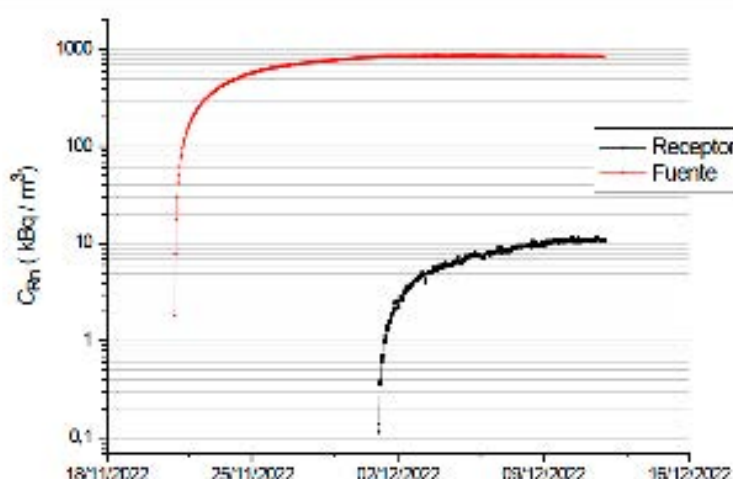


Fig. 1. Evolución de la concentración de radón en la cámara primaria/fuente (rojo) y en la cámara secundaria/receptor (negro) durante el ensayo. Radon concentration evolution in the primary/source chamber (red) and in the secondary/receiver container (black) during the test



CERTIFICATES

CE Certificate of Conformity for Construction Products. Rating: EN 1504-2:2004. System for the Assessment and Verification of Performance Consistency: System 2.

CE	
01239	
BARPIMO, SA · Calle San Fernando 116 CP 26300 · Nájera (La Rioja) 23 BARP-DPCE-04	
EN 1504-2:2004 REVESTIMIENTO IMPERMEABILIZANTE Control de humedad Aumento de resistividad Protección contra la penetración	
Corte por enrejado	GT<2
Permeabilidad al dióxido de carbono	SD>50
Permeabilidad al vapor de agua	Clase II $5m \leq S_d \leq 50m$
Absorción capilar y permeabilidad al agua	$w < 0.1 \text{ Kg/m}^2 \cdot h^{0.5}$
Adhesión mediante el ensayo de arrancamiento	Sistemas flexibles: $\geq 0.8 \text{ N/mm}^2$ (sin cargas de tráfico)
Reacción al fuego	F
Sustancias peligrosas	Consultar Ficha de Seguridad

NANOBARP ANTI-RADÓN

This document has been prepared for illustrative purposes only and does not replace expert advice. The information provided reflects our current knowledge and has been obtained from our own experience, but under no circumstances does it constitute a guarantee on our part. For these reasons, we cannot accept any undesirable consequences that may arise from its use. 21 June 2023 This document supersedes all previous versions.