

# DESMOG C

Highly acidic anti-smog detergent for historical buildings



## TECHNICAL SPECIFICATIONS

## FIELD OF APPLICATION

## APPLICATIONS



### Description

DESMOG C is a liquid gel detergent with high acidity that does not drip when applied vertically.

DESMOG C contains special surfactants and adjuvants that exert an exceptional detergent and descaling action which is highly effective on:

- Residues from atmospheric pollution (combustion residues and fumes).
- On efflorescence of mineral origin (saltpeter).

When applied to building surfaces blackened by ageing and air pollution, it attacks and removes the polluting patina without damaging the substrate.

### Field of application

DESMOG C is used as an acidic cleaner for deteriorated (lightly or heavily) surfaces with signs of blackening caused by:

- Acid rain.
- Corrosive fumes.
- Combustion fumes.

DESMOG C is specially formulated for removing the grey-blackish patina that forms due to atmospheric pollution on facades of historical buildings.

The supports on which it is particularly effective include:

- Cotto brick facades.
- Floors made of clinker or stoneware, natural silica stone, etc.
- Exposed concrete walls and surfaces.

Given the high acid content of DESMOG C, for limestone we recommend using DESMOG A (see Technical Sheet).

### Advantages

- DESMOG C possesses a high content of active substance.
- DESMOG C is thixotropic, therefore it does not drip vertically.
- DESMOG C does not tend to dry during application.
- DESMOG C is very suitable for treating even highly polluted surfaces (excellent wetting power).

### General preparation of the laying support

There are no special preparations required for the laying support, only a few general indications to facilitate the application and make it safer:

- Apply DESMOG C in favourable weather conditions to prevent excessive thickening (the ideal temperature is around 10–30°C).
- To maximise the detergent effect, the surface must be dry.
- The operators responsible for the treatment must be protected against contact with the product, which has corrosive effects on the skin and eyes.

### Preparing the product

- DESMOG C is ready-to-use, however it can be diluted with water.

**IMPORTANT:** the dilution process must be carried out very carefully by gradually pouring DESMOG C into the water and **NOT INVERSELY**.

- Shake before application.

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## Application of the product

- Before effecting any operation, carefully protect the hands, eyes and face.
- Apply DESMOG C, pure or diluted up to 1:1 by volume with water (see “Preparing the product” paragraph), by pouring it directly on the surface to be cleaned and spreading it with a synthetic-fibre block brush or sponge.
- Wait for the product to take effect (from a few minutes to over one hour).
- In this phase the surface can be vigorously brushed with a synthetic-fibre scrubbing brush or a Scotch Brite® scrub sponge to enhance the cleaning action.
- For application on floors, it is possible to use a single-disc floor scrubber equipped with the appropriate discs.
- Rinse thoroughly.
- For improved efficacy, we recommend performing two washes with a water jet wash (120–150 bar).

## Consumption

The product's consumption is highly variable and depends on the level of blotching of the surface to be treated.

type of application	minimum consumption	maximum consumption	UoM	coverage
For exposed brick or natural stone surfaces	0,2	0,5	L/m <sup>2</sup>	2 – 5 m <sup>2</sup> /L

## Cleaning of tools

- Rinse the tools and containers used for the application several times with water.

## Useful application tips

- To define the product's consumption, the efficacy duration and any negative defects on the material, a trial must be carried out on a small portion of surface to be treated.
  - Bear in mind that the product is highly effective only on silica surfaces (porphyry, granite, trachyte, basalt, etc.). When washing carbonate stone surfaces (highly common in Mediterranean Europe), preferably use DESMOG A (an alkaline gel detergent, see Technical Sheet).
  - The dilution of DESMOG C is made by slowly pouring DESMOG C into the water and NOT INVERSELY.
  - If the treated surface suffers the effects of the acid in the long run, the effects of the acid can be neutralised deeply using DESMOG A between the two power washes.
- This treatment becomes necessary following the treatment with DESMOG C of structures containing metal parts and weak materials (limestone, etc.).
- The product residues can be abundantly diluted with water before their disposal.
  - The product is dangerous, adopt suitable precautions and use the PPE specified in the Safety Sheet under point 8. Wear totally impermeable clothing, rubber boots, gloves resistant to highly alkaline substances and suitable face protections.
  - In case of contact with the skin and eyes, wash immediately with abundant cold water and consult a doctor as soon as possible.
  - Read the Safety Sheet carefully before using the product.

## Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Density at 23°C, EN ISO 2811-1	kg/L	1,08 ± 0,07
pH (potentiometric method) at 23°C, ISO 4316	-	< 1
Brookfield apparent dynamic viscosity (23°C / 50% R.H. ASTM#4 spindle, 60 rpm), EN ISO 2555	mPa·s	1800 ± 200
Active substance content (hydrochloric acid)	-	(24 ± 1)%
Thermal stability interval	°C	From +4 to +30
Application temperature	°C	From +10 to +30
Height of the foam - Ross-Miles method (after 3 minutes), ASTM D1173	mm	0

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► CHEMICAL COMPOSITION - REG. (EC) No. 648/2004	UoM	Value
Non-ionic surfactants	-	Absent
Anionic surfactants	-	Absent
Cationic surfactants	-	< 5%
Phosphates (phosphoric acid)	-	Absent
Surfactants with minimum 90% primary biodegradability and complete aerobic biodegradability in conformity to Regulation (EC) no. 648/2004	-	Yes

  

► COMPONENTS SUBJECT TO MANDATORY DECLARATION - Annex VII, §A, REG. (EC) No. 648/2004	UoM	value
Preservatives	-	Absent
Benzyl alcohol (CAS 100-51-6)	-	< 0,1%
Coumarin (CAS 91-64-5)	-	< 0,1%

## Storage of the product

- 24 months in the closed original packaging, in a dry and covered place away from direct sunlight, at a temperature between +5°C and +30°C.
- Protect the product against frost.

## Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
-	12 flaconi da 1 L	P*	30 scatole	
-	4 taniche da 5 L	YES	24 scatole	
-	20 l tank	YES	24 taniche	

Legenda ADR:

P\* = merce PERICOLOSA imballata in quantità limitata (confezionata come da Cap. 3.4 ADR)

SI' = merce PERICOLOSA

## LEGAL NOTES

Advice on how to use our products corresponds to the current state of our knowledge and does not involve the assumption of any guarantee and / or responsibility for the final result of the work. They do not refore exempt the customer from the responsibility of verifying the suitability of the products for the use and the prefixed purposes through preventive tests. The website [www.nordresine.com](http://www.nordresine.com) contains the latest revision of this datasheet.

## EDITION

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