





-  COTTO AND STONE TREATMENT
-  TRATTAMENTO DEL COTTO E DELLA PIETRA
-  TRAITEMENTS DU COTTO ET DE LA PIERRE
-  OCHRONA I KONSERWACJA CERAMIKI I KAMIENIA NATURALNEGO



NORDECAL FORTE GEL

Descaling acid gel

Description

NORDECAL FORTE GEL is an acid descaling detergent gel. The product contains hydrochloric acid and is therefore highly effective against mineral-based deposits (lime and cement) that are difficult to remove using descalers based on other acids.

Where to Use

NORDECAL FORTE GEL is used to:

- permanently remove laitance and any excess liquid mortar, cementitious grout, mortar and skim coating from floors (such as terracotta floors, ceramic, stoneware and clinker) and vertical building surfaces (brick walls, concrete walls,...);
- prepare new or old concrete floors (after removal-if any-of pre-existing treatments), for the application of CEM-O-LUX.

Generally, this product is non-aggressive and does not attack the surface, however a preliminary test should always be done on a small and preferably not exposed section of the surface to be cleaned in order to verify its chemical resistance.

NORDECAL FORTE GEL contains hydrochloric acid which can give rise to corrosive mists: not recommended for use in environments furnished with steel furniture or steel furnishing elements or steel home appliances (unless it is stainless steel AISI 316L).

Advantages

NORDECAL FORTE GEL is a gel that therefore:





- does not drip when applied vertically;
- does not splash when distributed over the surface;
- resists too strong dilutions (up to 1 liter of NORDECAL FORTE GEL in 8 liters of water) maintaining its thixotropy unaltered.

Application

(1) When used as a general purpose descaler

- *On tiled floors:*
- pour and spread NORDECAL FORTE GEL, either undiluted or diluted 1:1 with water, on an approx. 12-15 square meters sections of the floor one at a time;
- vigorously brush using a scrubbing brush or a Scotch-Brite® (or better, with a monobrush fitted with an appropriate disks);
- NORDECAL FORTE GEL will react within a few minutes dissolving all residues and to turn into a thick mush;
- then remove the all thing using a wet vacuum cleaner or a mop;
- then rinse abundantly the treated area;
- the most stubborn of cement residues must be removed with a triangular spatula.
- *On new ceramic floors:*
 - dilute 1 part of NORDECAL FORTE GEL with 4÷5 parts water;
 - test a small section of the floor for resistance to acidity;
 - pour and distribute the product on the floor, then wash brushing with care all the encrusted sides using a Scotch-Brite® abrasive sponge or a scrubbing brush;
 - rinse thoroughly with water after the acid wash.
- *New clinker or stoneware floors:*
 - dilute 1 part of NORDECAL FORTE GEL with 1÷2 parts water and proceed using the method described in the above step.
- *On exposed bricks:*
 - soak an abrasive sponge like Scotch-Brite® in the undiluted NORDECAL FORTE GEL and rub the area to be treated;
 - allow a few minutes for product to take effect;
 - rinse thoroughly and abundantly.



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(2) When used after cementitious tiles grouting:

- allow sufficient time for the tile grout to fully cure (see the Technical Data Sheet);
- dilute 1 part NORDECAL FORTE GEL with 6÷7 parts water;
- use the product to remove all grouting residues from the tiled surface (either floor or wall) using an abrasive sponge like a Scotch-Brite® or a mop but only on the encrusted parts.

(3) When used as a descaling cleaner to prepare floors before the CEM-O-LUX cycle

- *On old concrete floors:*
 - preliminary operation for control of the area see the data sheet of CEM-O-LUX;
 - de-dusted surface;
 - NORDECAL FORTE GEL diluted with water in proportions of between 1:2 and 1:8. These dilutions of the diluted product still has thixotropic properties.

When manually used on small areas:

- divide the floor into independent sections of approx. 12÷15 square meters to be treated one at a time;
- pour diluted NORDECAL FORTE GEL on the floor using a sprinkler;
- vigorously clean with a scrubbing brush or an abrasive tampon like Scotch-Brite® (a moonbrush fitted with appropriate disks can also be used);
- the detergent action will come to an end after a few minutes and no white foam will develop anymore in contact with the surface. At this point, proceed with removing the used up detergent using a squeegee and a wet vacuum cleaner or alternatively a mop;
- rinse with plenty of water and then remove it all with a wet vacuum cleaner or a mop;
- allow to dry and the next day proceed with the application of CEM-O-LUX PRIMER.

When mechanically used on wide areas

- pour NORDECAL FORTE GEL diluted 1:6-1:8 by volume inside a small garden pump or use a sprinkler;
- pass with a monobrush (even a self-propelled motorized one) fitted with brown or other colors Scotch Brite®;
- after a few minutes, go over again with the same active aspiration machine and remove the resulting liquid;
- pass a last time and rinse.
- *On new concrete floors with no anti-evaporation treatment:*
 - remove dirt and thoroughly de-dust the surface;
 - in case of existing white powder deposits resulting from joints cutting or resin fouling, perform an acid wash with NORDECAL FORTE GEL as described above under "On old concrete floors."
- *On new concrete floors with an anti-evaporation treatment that is either subjected to disbonding or "non-permanent":*
 - wash the surface with STRIPPER diluted 1:5 by volume with water, thoroughly scraping in order to remove the disbonding parts and rinse;
 - once dry go over the "difficult" areas again with the monobrush fitted with a 60-grit emery cloth;
 - vacuum all dust and perform an acid wash using NORDECAL FORTE GEL as described under "On old concrete floors."

Special Warnings and Instructions

- The product is irritating (labeling: Xi). Wear PPE (Personal Protective Equipment) to protect hands, eyes and face:
 - rubber boots
 - protective clothing
 - anti-splash goggles



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- resistant rubber gloves.
- After contact with skin and eyes, rinse thoroughly with water and consult a doctor.
- This product should be used only in a well ventilated area. A sufficient amount of air exchange must be ensured until 3-4 hours following application to facilitate the removal of the acid fogs formed while using the product.
- Check if there are any existing steel appliances in the working environment where NORDECAL FORTE GEL is applied. If yes, remove them all before proceeding with the acid wash.
- Before use, read the Material Safety Dat Sheet (MSDS) carefully.

Specifications

Bulk Density, UNI 8310	g/cm ³	1.06 ± 0.05
pH, UNI 8311	-	< 1
Apparent Dynamic Viscosity, ISO 3219	mPa·s	2000 ± 100
Perfume	-	sweet almond
Colour	-	water green
Appearance	-	creamy gel
Content of active substance	%	13 ± 1
Height of the foam Ross-Miles method, ASTM D1173	-	0 mm after 4 minutes

Note: testing methods are in accordance with the standards referred to on the table.

Chemical composition - REG. (EC) No. 648/2004

non-ionic surfactants	<5%
anionic surfactants	absent
cationic surfactants	absent
phosphates	absent

NORDECAL FORTE GEL contains surfactants with a minimum primary biodegradability of 90% and complete aerobic biodegradation in accordance with regulation (EC) No 648/2004.

Components requiring declaration - Annex VII, SA, REG. (EC) No. 648/2004

Preserving agents	absent
Benzyl alcohol (CAS 100-51-6)	<0.1%
Coumarin (CAS 91-64-5)	<0.1%

Labelling, packaging and storage

Indication of danger	X _i
Packaging	1 liter PE bottle, 5 and 25 liters PE tanks.
Storage	24 months in its original packaging, in a covered, dry place at temperatures between +5°C and +35°C.

Legal notice

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Edition

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