CHEMICAL ENGINEERING

TECHNICAL DATA SHEET
PRODUCT

MABEL CERA

WATER-BASED ANTI-SLIP WAX

Polished surfaces, especially marble and granite floors, ensure more light-filled interiors and convey a feeling of newness, cleanliness and tidiness; unfortunately the big drawback is that they are easily stained and scratched and are among the most slippery surfaces (the static friction coefficient for polished marble floors is sometimes below 0.35).
The regular use of appropriate waxes such as *MABEL CERA* protects the material from scratches and infiltrations, brightens up colours and ensures a considerable increase in the static friction coefficient (laboratory measurements have given values of up to 0.58) and therefore makes surfaces much less slippery.
In the absence of any European regulations, reference is made to US sources which define as *slip-proof* those surfaces with a static friction coefficient above 0.5 (JAMES FRICTION MACHINE): *MABEL CERA* can therefore be quite rightly considered among *slip-proof* waxes.

NOTES ON SLIPPERINESS
The slipperiness of a floor naturally depends on several factors such as:
1. Type and condition of shoes (rubber, leather, smooth, new soles, etc.)
2. The way of walking (short or long steps, walking on heels, walking on toes, walking on side of foot, etc.)
3. Type and conditions of floors (polished, absorbing, greasy, wet, uneven, etc.)

Because the first two factors, being subjective, cannot be controlled, the regular use of wax optimises the third factor, coming between the sole of the shoe and the floor. It is obvious that thicker wax layers provide better safety and that is why repeated and regular applications are recommended.

FUNCTION SLIP-PROOF PROTECTIVE AND POLISHING

LINE PROTECTIVE HOUSE and PROFESSIONAL

INDICATIONS SUITABLE FOR ALL POLISHED SURFACES TO BE PROTECTED WITH A FILM OF WAX WITH STRONG SLIP-PROOF CHARACTERISTICS

MATERIALS SPECIALLY FORMULATED FOR MARBLES, GRANITES, POLISHED NATURAL STONE. CAN ALSO BE APPLIED TO WOOD AND PLASTIC.

HOW TO USE

APPLICATION:
1. Spread a film of wax on the surface to be treated using the sprayer provided or a cotton cloth, with rotary movements and passing over the same areas several times.
2. Make sure the wax is applied uniformly over the entire surface.

Wait a few minutes (2-5) to allow the wax to properly absorb and attach to the floor. Wait another 5-10 minutes to allow it to dry well and then proceed to polish.

POLISHING:
Rub and polish with a clean cloth until eventual marks or streaks disappear.

NOTE:
For a stronger anti-slip effect apply one or two coats more according to the absorption capacity of the surface and the required effect.

TEST Always perform a preliminary test on a small area to determine consumption, drying times and, after drying, the aesthetic effect achieved and actual degree of protection attained

COMPOSITION WATER-BASED WAX AND RESIN EMULSION.

TECHNICAL DATA
DRYING TIME: 5 - 15 minutes (depending on environmental conditions: temperature, humidity, ventilation etc.)
ESTIMATED CONSUMPTION: 50 - 100 g/m² (depending on porosity of the material and kind of polishing required)
Store at temperature not lower than 5°C (41°F) and not higher than 35°C (95°F)

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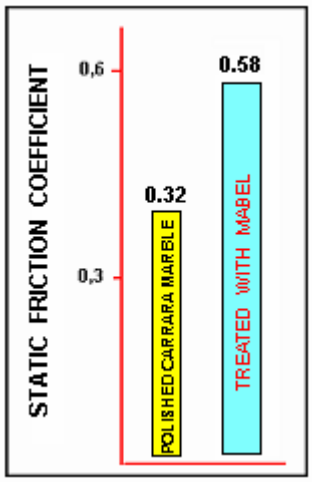
MAINTENANCE

The application of *MABEL CERA* *wax reduces slipperiness, protects, brightens and polishes* stone materials for a long time. Walking on the material tends to cause the polish to disappear and the floor to become dirty; the regular application of *MABEL CERA* maintains the original characteristics of the treated floor.
Periodically, it is a good idea to completely remove *MABEL CERA* using a strong detergent such as NEUTREX and then proceed with a new application.

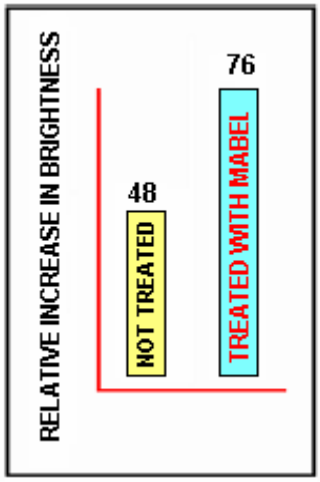


REDUCTION OF SLIPPERINESS

Static friction measurements taken on polished and dry Carrara marble in conditions of R.H. (75%):

Before application: ***static friction coefficient*** **0.32**

After application
of 100 g/m² of *MABEL CERA* 10 minute drying and manual polishing with a cloth: ***static friction coefficient***.....**0.58**



INCREASE OF BRIGHTNESS

Measurements taken with a glossmeter 500 (60° angle) on polished granite show increases in brightness of above 50 %

Average values found:

Untreated polished Carrara marble… **48.0**

Polished Carrara marble with surface treated with *MABEL CERA*……..**76.0**

IMPORTANT

SYNERGIC COMPOSITION OF RESINS AND WAXES. A FAST-ADHERING AND POLISHABLE THIN FILM REMAINS ON THE SURFACE. ALWAYS WORK ON VERY CLEAN AND DRY SURFACES.

LIMITED LIABILITY

The information provided has been taken from bibliography or our laboratory experience and must be considered as approximate and not be taken as a formal guarantee. In particular, any liability for faulty products, once the fault has been ascertained, shall nevertheless be restricted to the purchase price of the product only. No liability can be accepted for implicit or explicit damage caused by product use, which remains beyond our direct control

BEFORE APPLYING, ALWAYS EFFECT A PRELIMINARY TEST

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