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INTRODUCTION

DESCRIPTION

Off-white powder, based on various types of hydrated and airborne natural limes, different very high performance clinkers, additives and special ingredients.

Mixing with the product **MORTEX® BEALCRYL 2** gives a malleable mortar, easy to apply, applicable with a float (plasterer's trowel), usable for approximately 20 minutes. Mortar mixed with the product **MORTEX® BEALCRYL 2** hardens to form an impermeable mass, low in tensions, reducing the formation of cracks practically to zero.

The **MORTEX® COLOR 2-F1/F2/F3/F4** product range achieves increasingly finer finishes until a transparent shroud is obtained. The products **MORTEX® COLOR 2-F3** and **MORTEX® COLOR 2-F4** are intended exclusively for decorative finishes.

USES

Indoors, exclusively with humidity in the substrate absent both before and after application.

Technical (finesses F1 and F2) and/or decorative (finesses F1/F2/F3/F4) surface finishes, depending on particle size.

ADVANTAGES

- Mineral
- Continuous finish
- Fine thickness
- Unlimited range of colours and appearances

TECHNICAL SPECIFICATION

Product MORTEX® COLOR 2-F1

IDENTIFICATION DATA	
State	Solid
Appearance	Powder
Colour	Off-white
Particle size	Max. 0.26 mm
Packaging	25 kg bags 5 kg buckets
Storage	6 months in a dry spot, sheltered from frost, not in contact with the ground and in the original unopened packaging. Never leave the products in full sunlight.
Customs classification	38 16 00 00
APPLICATION DATA	
Mixing ratio	200 ml of product MORTEX® BEALCRYL 2 / kg of product MORTEX® COLOR 2-F1 (to be adjusted according to the quantity of pigments and the humidity of the air)
Average consumption	From 0,75 to 1,20 kg/m ²
Application temperature	+5°C min to +30°C max
Relative humidity	65% min and 90% max Bar the use of appliances which are capable of drying out the humidity of the air (dehumidifier, air conditioner, etc.) 1 week before and after the site, as well as during application.
Humidity of the substrate	< 3%
Opening time (at 20°C)	Approx. 20 min
Drying time (at 20°C)	Dry to the touch: 1 hour Light traffic: 8 hours Between coats: 8 to 24 hours Light usage: 72 hours Complete drying: 7 days

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Product MORTEX® COLOR 2-F2

IDENTIFICATION DATA	
State	Solid
Appearance	Powder
Colour	Off-white
Particle size	Max. 0.17 mm
Packaging	25 kg bags 5 kg tubs
Storage	6 months in a dry spot, sheltered from frost, not in contact with the ground and in the original unopened packaging. Never leave the products in full sunlight.
Customs classification	38 16 00 00
APPLICATION DATA	
Mixing ratio	230 ml of product MORTEX® BEALCRYL 2 / kg of product MORTEX® COLOR 2-F2 (to be adjusted according to the quantity of pigments and the humidity of the air)
Average consumption	From 0,75 to 1,10 kg/m ²
Application temperature	+5°C min to +30°C max
Relative humidity	65% min and 90% max Bar the use of appliances which are capable of drying out the humidity of the air (dehumidifier, air conditioner, etc.) 1 week before and after the site, as well as during application.
Humidity of the substrate	< 3%
Opening time (at 20°C)	Approx. 20 min
Drying time (at 20°C)	Dry to the touch: 1 hour Light traffic: 8 hours Between coats: 8 to 24 hours Light usage: 72 hours Complete drying: 7 days

Product MORTEX® COLOR 2-F3

IDENTIFICATION DATA	
State	Solid
Appearance	Powder
Colour	Off-white
Particle size	Max. 0.03 mm
Packaging	25 kg bags 5 kg tubs
Storage	6 months in a dry spot, sheltered from frost, not in contact with the ground and in the original unopened packaging. Never leave the products in full sunlight.
Customs classification	38 16 00 00
APPLICATION DATA	
Mixing ratio	320 ml of product MORTEX® BEALCRYL 2 / kg of product MORTEX® COLOR 2-F3 (to be adjusted according to the quantity of pigments and the humidity of the air)
Average consumption	+/- 0.7 kg/m ²
Application temperature	+5°C min to +30°C max
Relative humidity	65% min and 90% max Bar the use of appliances which are capable of drying out the humidity of the air (dehumidifier, air conditioner, etc.) 1 week before and after the site, as well as during application.
Humidity of the substrate	< 3%
Opening time (at 20°C)	Approx. 20 min
Drying time (at 20°C)	Dry to the touch: 1 hour Light traffic: 8 hours Between coats: 8 to 24 hours Light usage: 72 hours Complete drying: 7 days

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Product MORTEX® COLOR 2-F4

IDENTIFICATION DATA	
State	Solid
Appearance	Powder
Colour	Off-white
Particle size	Max. 0.023 mm
Packaging	25 kg bags 5 kg tubs
Storage	6 months in a dry spot, sheltered from frost, not in contact with the ground and in the original unopened packaging. Never leave the products in full sunlight.
Customs classification	38 16 00 00
APPLICATION DATA	
Mixing ratio	370 ml of product MORTEX® BEALCRYL 2 / kg of product MORTEX® COLOR 2-F4 (to be adjusted according to the quantity of pigments and the humidity of the air)
Average consumption	+/- 0.5 kg/m ²
Application temperature	+5°C min to +30°C max
Relative humidity	65% min and 90% max Bar the use of appliances which are capable of drying out the humidity of the air (dehumidifier, air conditioner, etc.) 1 week before and after the site, as well as during application.
Humidity of the substrate	< 3%
Opening time (at 20°C)	Approx. 20 min
Drying time (at 20°C)	Dry to the touch: 1 hour Light traffic: 8 hours Between coats: 8 to 24 hours Light usage: 72 hours Complete drying: 7 days

APPLICATION

SUBSTRATE AND PREPARATION

The substrate must be sound, dry before and after application, clean, matt, free from dust and non-oily. It must be hard, not vulnerable to frost and not floury.

Remove any part that is not adhering or has low cohesion, as well as any substance that may impair the adhesion. Remove dust carefully.

There must not be any stagnant water in the surface at the time of application.

If the substrate consists of materials of different kinds, unstable and/or incorporating joints (e.g.: tiling), it is essential to take the necessary precautions to avoid, as far as possible, any movement due to expansion, to the difference between surface and internal tensions and to shearing.

It is essential to ensure that the substrate is properly stable. If you have any doubt, talk to us. A test is always advisable.

In order to achieve uniform absorption, start by applying undiluted **RESIDUR** primer and adhesion bridge to the substrate. On glass, gloss tiling (pay attention to phantom joints without an undercoat with the product **MORTEX® COLOR 2-N**) and smooth surfaces, use **RESIPACT G** primer after keying the surface. After the primer as dried, approx. 6 to 8 hours – depending on the porosity of the substrate and the site conditions – start to apply the product **MORTEX® COLOR 2-F**.

If the substrate has had an application of a **MORTEX®** brand product already, do not apply primer.

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PREPARATION OF THE MIXTURE

According to the **MORTEX® COLOR 2-F** product powders used, follow the mixing ratios listed in the preceding table.

Pour the product **MORTEX® BEALCRYL 2** into a clean tank and gently add 2/3 of powder. Mix at a slow speed (400 to 600 rpm) with a mortar paddle, gradually adding the remaining 1/3 of the powder until you obtain a homogeneous mortar without lumps.

To colour the mortar, add powdered pigment into the mixing liquid or into the powder, as you wish. Pass the pigment through a fine tammy if necessary. To avoid any problems, use only pigments from the **BEAL COLOR** range, designed for use with the **MORTEX®** brand products.

Ensure that you always counterbalance the pigment added to the mixing liquid, depending on the porosity of the pigment ($\frac{1}{2}$ to $\frac{3}{4}$ of the volume of pigment in the product **MORTEX® BEALCRYL 2**). Example: If 500 ml of pigment is added to the mixture, 250 to 375 ml of extra product **MORTEX® BEALCRYL 2** must now be added, i.e. in total: 5.25 to 5.375 L of the product **MORTEX® BEALCRYL 2** for a 25 kg bag of the product **MORTEX® COLOR 2-N**.

For delayed setting, add the **RBE3** (1.6 to 8 ml/kg the product **MORTEX® COLOR 2-F**) beforehand in the product **MORTEX® BEALCRYL 2** mixing liquid and mix before adding the powder. To fluidify, add **FBE3** (2,2 to 4,4 ml/kg product **MORTEX® COLOR 2-F**) under the same conditions. Never use both these additives in a single mixture.

At a temperature of 20°C, without additives, the mortar can be used for approximately 20 min. Low temperatures prolong the time of application and high temperatures shorten it.

*Comment: For specific applications needing more elasticity with lower compressive strength (e.g.: certain types of moving cracks, etc.), it is possible to use other mixing liquids from the **MORTEX®** range, viz. **BEALFLEX** and **BEALELAST**, demanding different mixing ratios (see the ad hoc technical data sheets).*

USE

Always use **RESIDUR**, unless there is damp present or a risk of damp in the substrate and if a **MORTEX®** brand product is used as an undercoat.

The **MORTEX® COLOR 2-F** product range are applied with a float (plasterer's trowel). Other tools can be considered for purely decorative finishes. (Example: brush, paintbrush, spatula, comb, etc.)

In closed rooms or in a damp atmosphere, condensation can occur at the surface. This must be adequately sponged off before applying the next coat.

POLISHING

After 48 hours' drying of the chosen **MORTEX®** brand system, it is possible to polish the dry surface carefully with size 100 to 150 glasspaper or screened abrasives.

N.B.: never penetrate into the particles forming the basis of the technical coats.

PROTECTIONS

The **MORTEX® COLOR 2-F** product range, mineral-based, have a surface like a natural stone, which can be insulated from attack by a protection in order to keep or change the initial appearance.

The protection can be applied 48 hours (20°C) after applying the last coat of the chosen **MORTEX®** brand system.

Depending on the purpose of the site, choose from the protections in the explanatory table below.

Depending on your choice of protection, refer to the corresponding technical data sheets before use.

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Purpose of the site	POLYTHANE N120	POLYTHANE N120 +BEALWAX	FINISH SA (TR)	FINISH SA (TR) +BEALWAX	OIL OH (TR)	OIL OH (TR) + BEALWAX	BIPUR	BIPUR + BEALWAX	REPELOIL	REPELOIL + BEALWAX	BEALWAX
Public floor	✓	✓									
Private floor	✓	✓			✓	✓	✓	✓			
Stairs	✓				✓		✓				
Shower or area in contact with water or a wet space				✓ (only on walls)		✓	✓	✓			
Working drawings in contact with water	✓					✓	✓	✓			
Wall or furnishings demanding a specified strength	✓	✓			✓	✓	✓	✓			
Decorative	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Terrace									✓		
Facade									✓		

MISCELLANEOUS

CLEANING TOOLS

All tools can be cleaned with water while the product has not hardened. If the product has started to go off already, allow the tools to soak for 30 minutes in water before cleaning.

MAINTENANCE

Unprotected product **MORTEX®**: maintenance without a mordant agent.

Protected product **MORTEX®**: refer to the ad hoc technical data sheets.

For keeping clean: **FINISH SA TR** diluted in water.

To eliminate limescale (plumbing fittings also): vinegar diluted in water. Start with low concentrations and increase according to the hardness of the water.

WARNINGS

Sites must be protected against rain, sun, wind and frost until drying is complete and until immersion in water is complete.

In closed and poorly ventilated rooms, severe condensation may occur after application, owing to the relatively lower temperature of the walls. Increasing the ventilation will resolve this problem very quickly, as often as not. Using dehumidifying installations is inadvisable during the first 28 days following application.

It is extremely inadvisable to apply media containing salts (sodium sulphate, nitrates, calcium, etc.).

Owing to their limited chemical strength, it is inadvisable to use the **MORTEX® COLOR 2-F** product range mixed with water.

The products **MORTEX® COLOR 2-F1** and **F2** mixed with the product **MORTEX® BEALCRYL 2** keep their water-resistant properties in conditions where the chalk-carbon water balance is maintained.

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ADVICE

BEAL strongly recommends following one or more training courses on **MORTEX®** brand products, depending on the purpose of the site. The company organizes frequent training courses, of different types (according to the different application systems) at its headquarters or on the premises of its distributors. They are accessible to both professionals and individuals alike, in Belgium and abroad (see www.beal.be).

After attending training courses, private coaching sessions on site can be organized. For more information, contact us.

Follow the application instructions exactly, according to the purpose of the product. Never use products other than those shown in this technical data sheet, to avoid any risk of things going wrong.

Always carry out tests with the chosen protection, as each pigment and each protection reacts differently.

For a single site and for each product type, always use products bearing the same batch number.

ENVIRONMENT

Remove waste to a specialist collection centre.

SAFETY

Contains limes, cements, silicates and additives. Avoid inhaling dust while mixing. Protect your skin and eyes. Wear gloves. If a product comes into contact with your eyes or skin, rinse immediately and copiously with clean water. In the event of a problem, consult a specialist.

Consult the safety data sheet available on request or at www.beal.be

LEGAL NOTICE

These instructions, and , in particular, the recommendations for the application and final use of the products, are provided in good faith and are based on the knowledge and experience that the BEAL Corporation has acquired to date about its products when they have been properly stored, handled and applied under normal conditions. In practice, the differences between materials, substrates and specific conditions on site are such that this information or any written recommendation or advice given do not imply any guarantee of merchantable quality other than the statutory guarantee against hidden defects. Our liability cannot be committed in any way, assuming an application not compliant with our teaching. None of the data and information relating to suitability and application absolve the client from the need to carry out its own verifications and tests. All orders are accepted subject to our current terms and conditions of trading. It is essential that users consult the most recent version of the instructions for the product in question. These will be delivered to them on request.

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