NANOSTUCCO

application cycles

PF COLORS

We work every day to improve our products and the application cycles may vary. Before applying NANOSTUCCO, please ask application process to be confirmed.

The widest range of textures with appareance of matter

The new standard for the matter design. Finishings with structural consistency for an essential style that conveys solidity. All products of the Personal Factory's NANOSTUCCO collection were born to provide a complete range of a resin/cement based surface finishings. It is an instrument that, in the hands of a skilled craftsman, allows the creation of a durable design, cut on the tastes of the customer. The basic idea was to create a tailored environment with countless combinations that, through its matt and highly tactil effect shades, would convey the idea of a modern functionality. Products were created as a result of years of research and development and as a result of the use of the modern technology, while creating the cement-resin hybrids. Products were created to satisfy the needs of the most demanding craftsmen and have at the same time a material to be extremely simple and safe in pose. The NANOSTUCCO collection was created to satisfy the most stringent expectations in terms of product durability and surface quality.

ROUGH
for a rough and natural effect

GRAINY
for a cementitious, essential spatula effect

VELVET
for a matt, velvet effect

SMOOTH
for a natural, mineral, ultra smooth effect

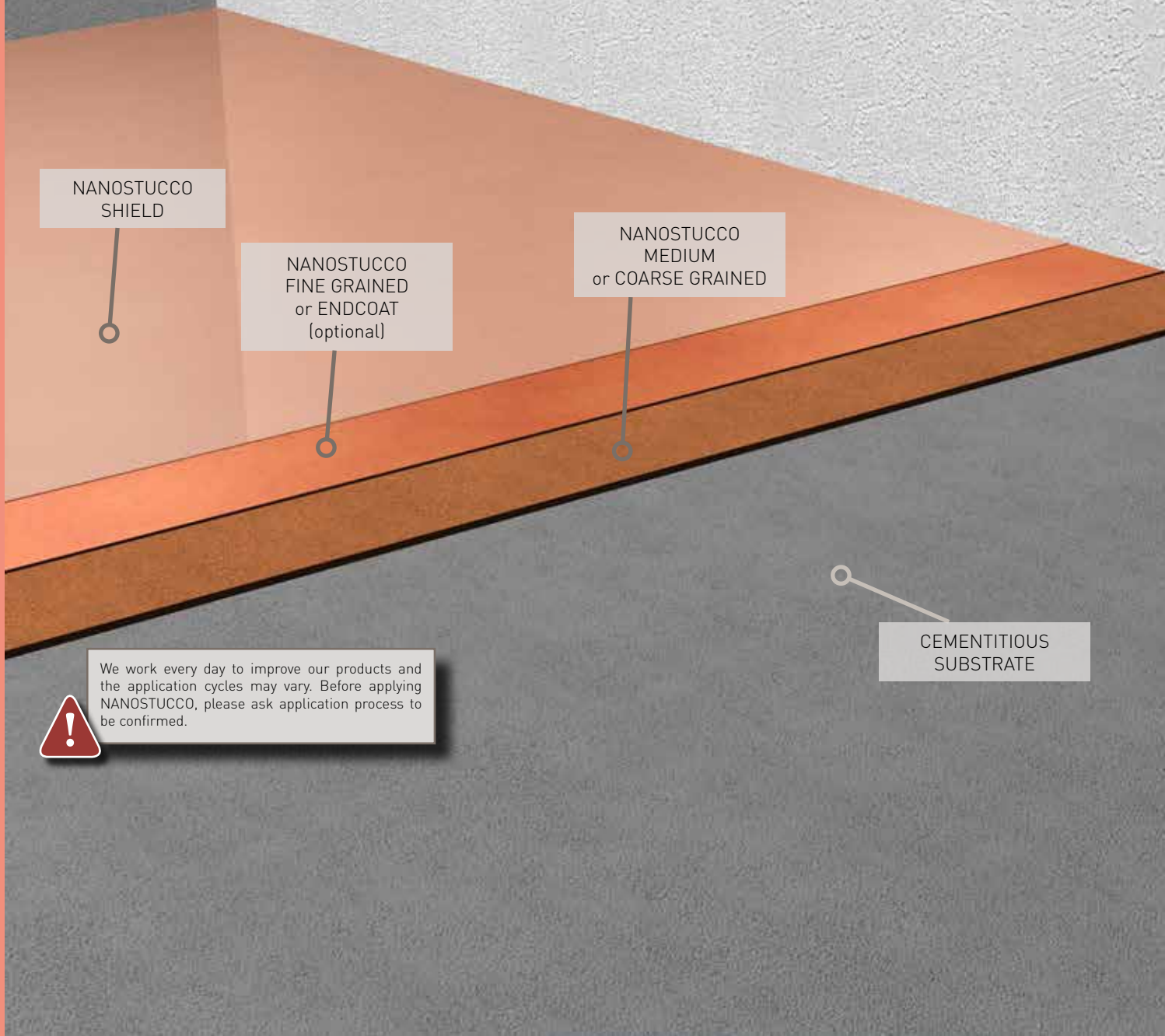
A COMPLETE RANGE OF PRODUCTS*
FOR ALL APPLICATION CYCLES

NANOSTUCCO 200	NANOSTUCCO SHIELD 05
NANOSTUCCO 500	NANOSTUCCO CARBON SHIELD
NANOSTUCCO 800	ISOLPLANO RASO 50
NANOSTUCCO ENDCOAT 500	RESTAUROMIX TX RASO 50
NANOSTUCCO ENDCOAT 800	ISOLMIX RASOCOL 600
NANOSTUCCO SHIELD 01	EMULSIONMIX

*All technical data sheets are available on our website www.personalfactory.eu/products

APPLICATION ON A REGULAR CEMENTITIOUS SUBSTRATE ON EXCELLENT CONDITION

1. The NANOSTUCCO product cycle can be directly applied on cementitious substrates with an application cycle extremely reduced. In addition to the purely aesthetic feature, the major advantage is to have a very low-thick (about 1.5-2 mm) coating, that is at the same time, elastic and resistant to loads and wear. The direct application of the short cycle without mesh obviously requires a careful assessment of the condition of the substrate that needs to have no cracks and to be totally free from problems of rising damp. Of course the system allows a highly customized aesthetic effect through a simple and fast application.



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Preparation of the substrate

1. The substrate must be sufficiently cured. In the case of cement standard screeds, you should wait at least 28 days in order to apply the cycle on a stable substrate. The surface must be free from oil, grease, sheaths, etc., perfectly flat and spotless. If it is not, it can be paved with a sander or regularized with a coat of ISOLMIX RASOCOL 600.

2. Proceed with a thorough cleaning of surfaces with vacuum cleaner in order to prevent sand grains and tiny fragments of mortar from marking NANOSTUCCO during coating or from making the trowel to jump.

3. In the case in which the substrate has a high absorbency, proceed with a coat - passed with roller - of EMULSION-MIX diluted in the ratio 1:1 with clean water. This step is essential to reduce the tendency to dusting and also serves to fix the dust that has not been eliminated with cleaning.

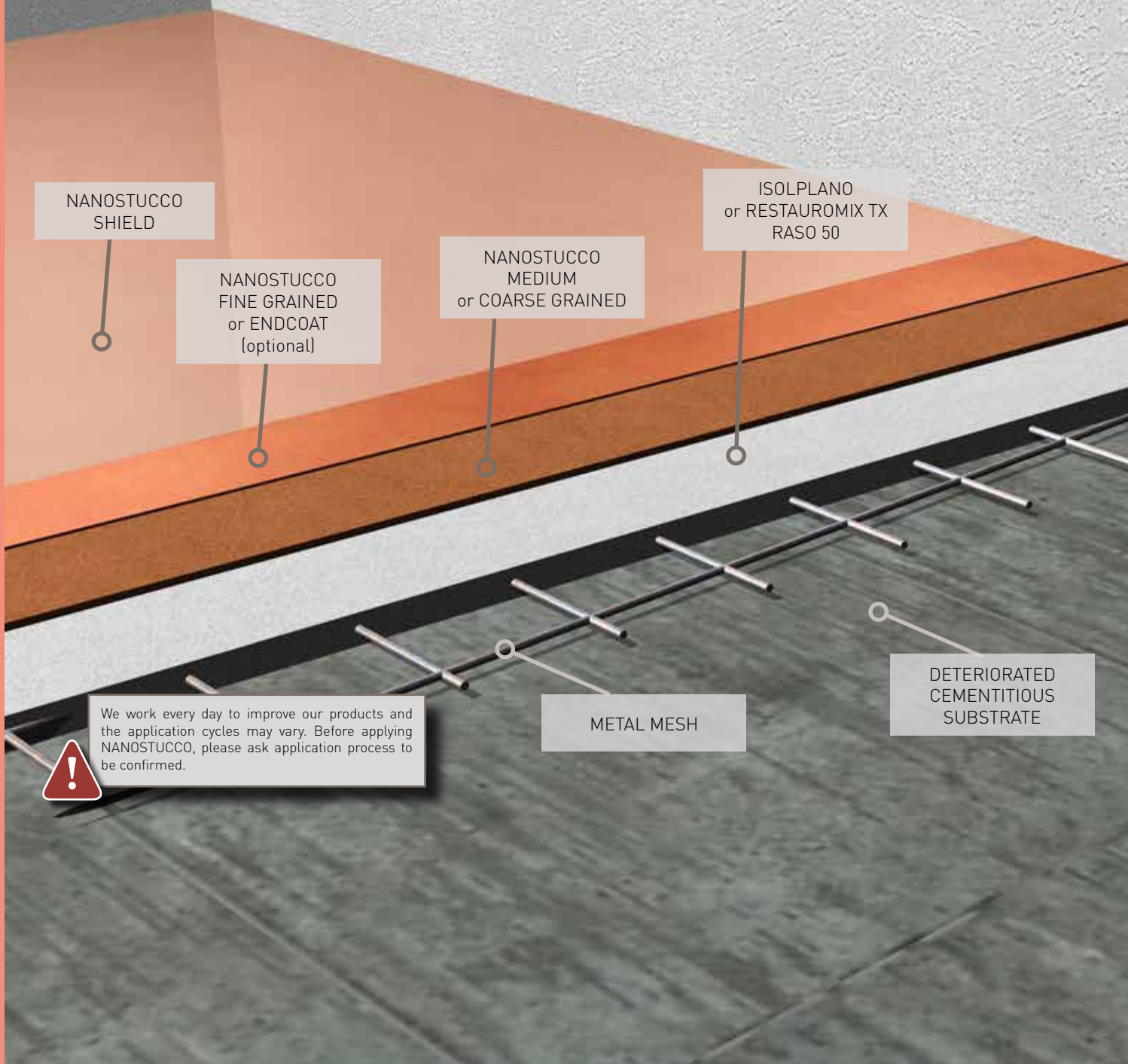
4. Mix the product with liquid as prescribed for the type of particle size and the desired effect. In any case, the NANOSTUCCO cycle is very flexible and tolerant on the amount of liquid. The correct quantity is the one that gives the operator the consistency he likes. The general guideline is to add 2/3 of the liquid needed by the powder and mix vigorously for at least 3 minutes. Next add the remaining liquid. The mixture in standard conditions lasts approximately 30 minutes (depending on the temperature). If, after about 10 minutes, it appears that the product thickens, you can proceed with a mixing without risking to break the hold of the material.

Cycle steps to realize the aesthetic effect wished

DAY	ROUGH/GRAINY	VELVET	SMOOTH
1	• Prepare the substrate • After 1 hour, apply a coat of medium or coarse grained NANOSTUCCO • After min. 4-6 hours, sand and clean	• Prepare the substrate • After 1 hour, apply a coat of medium or coarse grained NANOSTUCCO • After min. 4 hours, sand and clean • Apply a coat of fine grained NANOSTUCCO	• Prepare the substrate • After 1 hour, apply a coat of medium or coarse grained NANOSTUCCO • After min. 4 hours, sand and clean • Apply a coat of fine grained NANOSTUCCO
2	• Apply a second coat with medium or coarse grain • After almost 4-6 hours from the previous step, sand the second coat and clean carefully	• Apply a second coat with fine grain • Only if you want, after almost 4 hours from the previous step, sand the second coat and clean carefully	• Sand the second coat and clean carefully • Apply a coat of NANOSTUCCO ENDCOAT
3	• After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• Sand the second coat and clean • After min. 14 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product

APPLICATION ON A DETERIORATED CEMENT SUBSTRATE IN MEDIUM/HIGH THICKNESSES

2. Low thickness restoring - max. 40 mm, but with an average of 20 mm - in a short time has always been a difficult intervention. The NANOSTUCCO cycle with ISOLPLANO RASO 50 or RESTAUROMIX TX RASO 50 allows to make a new, finished and modern flooring in a few days with a textured aspect. Even in case you need to realize a very variable profile with very thin points (about 5 mm), the stratigraphy is simple, easy to apply and safe in the result. Still it requires a careful evaluation of the conditions of the substrate that has to be totally free from problems of rising damp and must not show cracks in motion due to substantial or structural failures. Of course the system allows a highly customized aesthetic effect through a simple and fast application.



We work every day to improve our products and the application cycles may vary. Before applying NANOSTUCCO, please ask application process to be confirmed.

Preparation of the substrate

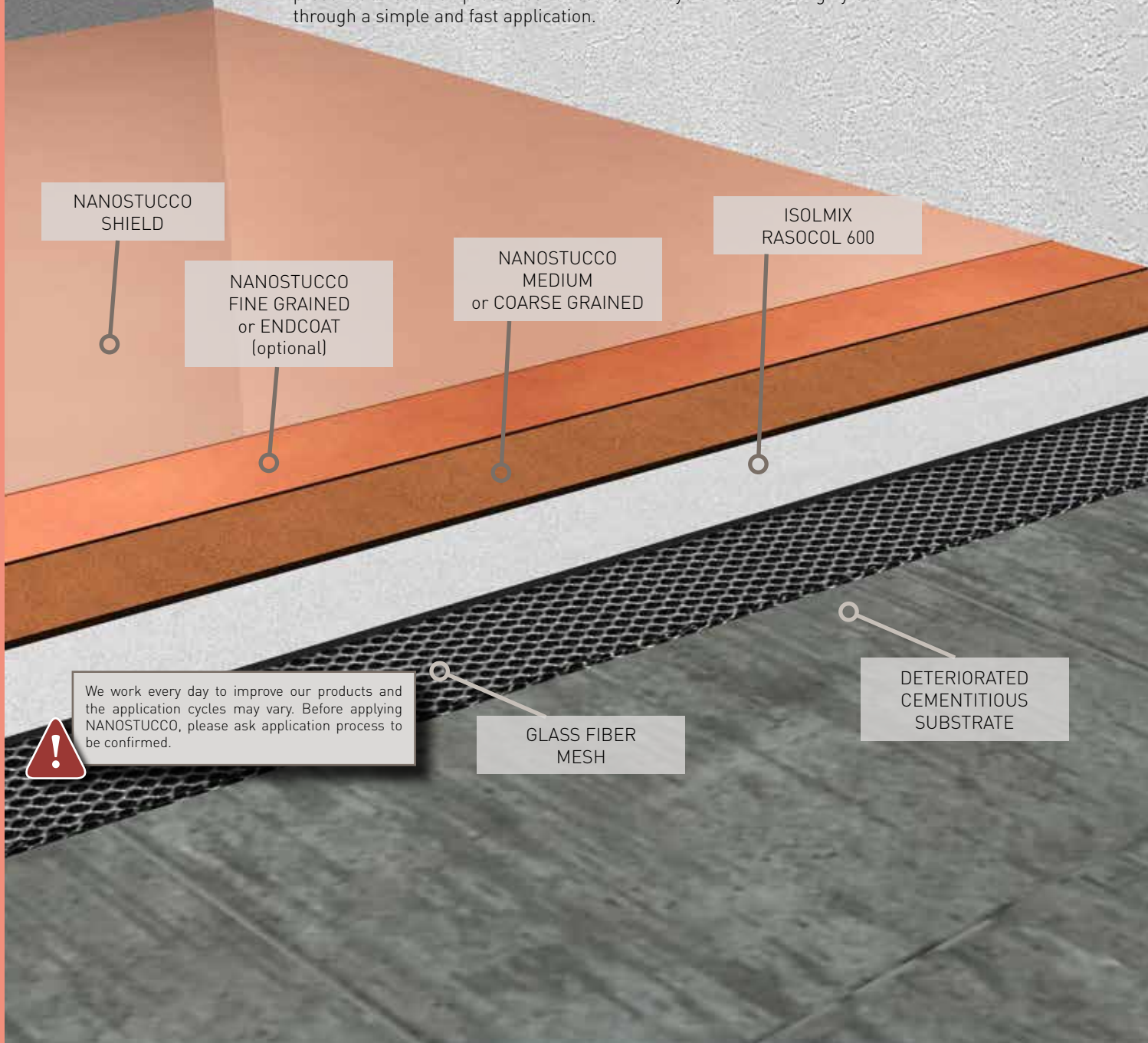
1. Proceed with a thorough cleaning of surfaces with a vacuum cleaner. The damaged parts must be broken up with a pick, the cracks must be opened as a V and restored separately.
2. In the case where the thicknesses allow it, drown a metal net (phi 5 type, mesh 100X100 mm) taking care that the net overlap at least 150 mm.
3. Knead - as prescribed by technical data sheet - ISOLPLANO RASO 50, the semi-fluid mortar for horizontal surfaces; if the substrate is particularly deteriorated or problematic, you can add into the mortar up to 2% short metal fiber (approx 20 mm).
4. Let the substrate to mature for at least 24 hours in standard condition. The higher the curing time the better the result.
5. In case the surface is not perfectly planar, or in the presence of slurries, it is recommended to scarify the surface with suitable equipment in order to have a planar and uniform surface.
6. Proceed with a thorough cleaning of surfaces with vacuum cleaner in order to prevent sand grains and tiny fragments of mortar from marking NANOSTUCCO during coating or from making the trowel to jump.
7. In the case in which the substrate has a high absorbency, proceed with a coat - passed with roller - of EMULSION-MIX diluted in the ratio 1:1 with clean water. This step is essential to reduce the tendency to dusting and also serves to fix the dust that has not been eliminated with cleaning.
8. Mix the product with liquid as prescribed for the type of particle size and the desired effect. In any case, the NANOSTUCCO cycle is very flexible and tolerant on the amount of liquid. The correct quantity is the one that gives the operator the consistency he likes. The general guideline is to add 2/3 of the liquid needed by the powder and mix vigorously for at least 3 minutes. Next add the remaining liquid. The mixture in standard conditions lasts approximately 30 minutes (depending on the temperature). If, after about 10 minutes, it appears that the product thickens, you can proceed with a mixing without risking to break the hold of the material.

Cycle steps to realize the aesthetic effect wished

DAY	ROUGH/GRAINY	VELVET	SMOOTH
1	• Prepare the substrate	• Prepare the substrate	• Prepare the substrate
2			
3	• Apply a coat of medium or coarse grained NANOSTUCCO • After min. 4-6 hours, sand and clean • Apply a second coat with medium or coarse grain • After almost 4-6 hours from the previous step, sand the second coat and clean carefully	• Apply a coat of medium grained NANOSTUCCO • After min. 4 hours, sand and clean • Apply a coat of NANOSTUCCO with fine grain • Apply a second coat of NANOSTUCCO with fine grain	• Apply a coat of medium grained NANOSTUCCO • After min. 4 hours, sand and clean • Apply a coat of NANOSTUCCO with medium grain
4	• After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• Only if you want, after almost 4 hours from the previous step, sand the second coat and clean carefully • After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• Sand the second coat and clean carefully • Apply a coat of NANOSTUCCO ENDCOAT • Sand and clean carefully after min. 2 hours
5			• After min. 14 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product

APPLICATION AND WATERPROOFING ON A CEMENT SUBSTRATE IN LOW THICKNESSES

3. In many civil works, especially in the case of restoring, it can be very important to be able to coat and waterproof the surfaces in a very low thickness. Especially in applications such as bathrooms, kitchens, spas, swimming pools. The application of the NANOSTUCCO cycle in a layer of about 5 mm allows to create surfaces resistant to wear of various nature and at the same time to have a layer perfectly waterproofed and continuous with the substrate. The NANOSTUCCO cycle with ISOLMIX RASOCOL 600 allows you to create material surfaces, modern and monolithic in all conditions. Its versatility is also the ideal solution where the existing floors (species in ancient constructions) can present problems of allowable load. A thin layer of a few millimeters can make a new floor without intervening heavily on the existing floor. In the presence of stone walls or rustic ones, the contrast with the continuous surfaces is visually very effective and pleasing. In the case of restoring however, a careful evaluation of the conditions of the substrate is important because a layer of only 5 mm can not solve structural problems or compensate for large movements. It is highly recommended to first solve problems of rising damp because the cycle can not resist in the presence of counter-pressures. Of course the system allows a highly customized aesthetic effect through a simple and fast application.



Preparation of the substrate

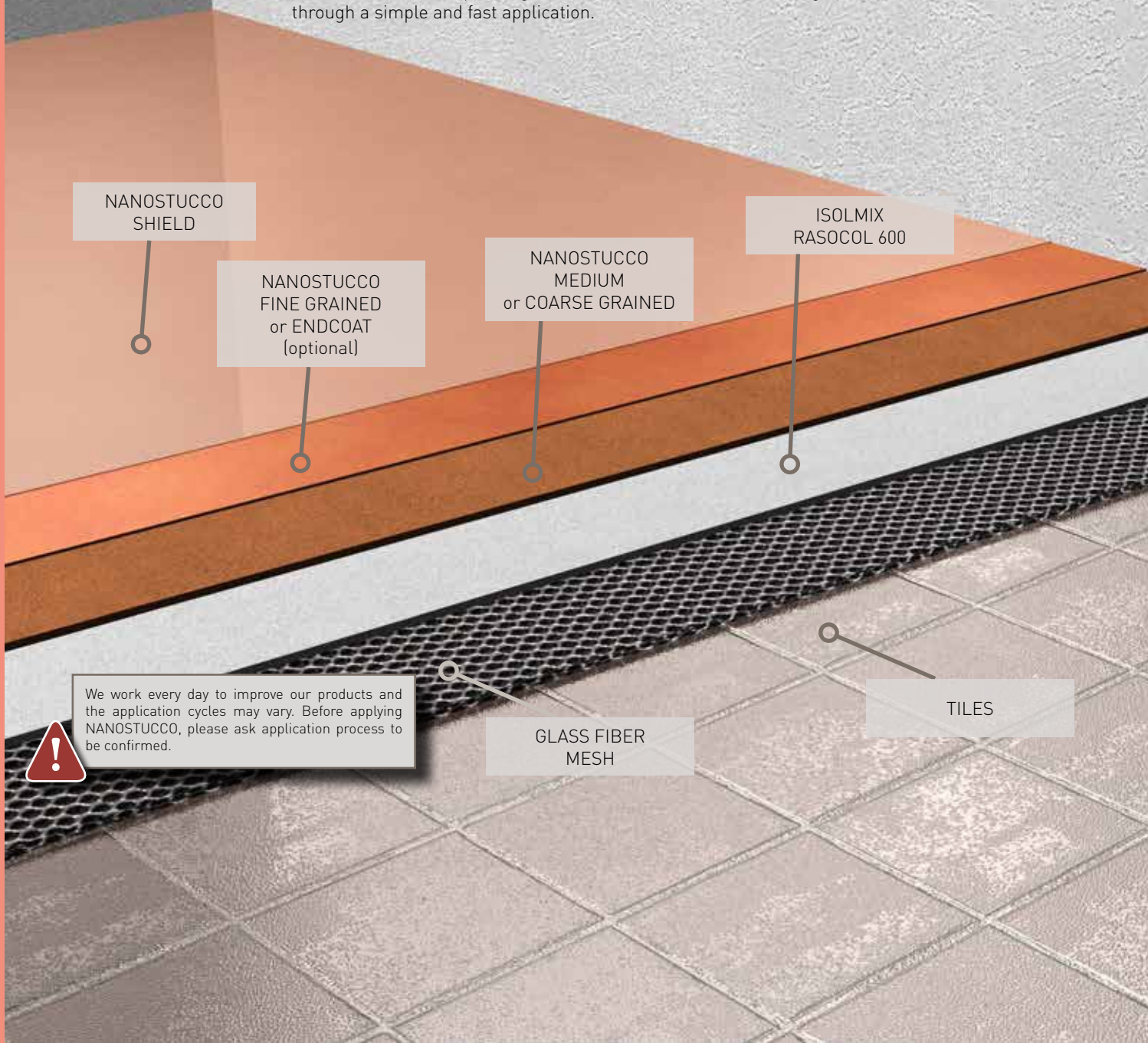
1. Proceed with a thorough cleaning of surfaces with a vacuum cleaner. The damaged parts must be broken up with a pick, the cracks must be opened as a V and restored separately.
2. Knead - as prescribed in technical data sheet - ISOLMIX RASOCOL 600, the adhesive render coat, hydrophobic and with quick drying and hardening.
3. Apply a coat of ISOLMIX RASOCOL 600 drowning a glass fiber net of at least 180 gr/sqm, mesh 10x10 mm, making sure the joints to overlap at least 50 mm.
4. After about 4 hours under standard conditions, proceed with an accurate sanding of surfaces with a 120-180 grit in order to eliminate trowel lines and to have a perfectly planar surface.
5. (optional) In case the thicknesses are high and it is not possible to even the surface with just one coat, you can apply a second coat and sand it.
6. Proceed with a thorough cleaning of surfaces with a vacuum cleaner in order to prevent sand grains and tiny fragments of mortar from marking NANOSTUCCO during coating or from making the trowel to jump.
7. Mix the product with liquid as prescribed for the type of particle size and the desired effect. In any case, the NANOSTUCCO cycle is very flexible and tolerant on the amount of liquid. The correct quantity is the one that gives the operator the consistency he likes. The general guideline is to add 2/3 of the liquid needed by the powder and mix vigorously for at least 3 minutes. Next add the remaining liquid. The mixture in standard conditions lasts approximately 30 minutes (depending on the temperature). If, after about 10 minutes, it appears that the product thickens, you can proceed with a mixing without risking to break the hold of the material.

Cycle steps to realize the aesthetic effect wished

DAY	ROUGH/GRAINY	VELVET	SMOOTH
1	• Prepare the substrate • After 4 hours, apply a coat of NANOSTUCCO with medium or coarse grain • After min. 4-6 hours, sand and clean	• Prepare the substrate • After 4 hours, apply a coat of NANOSTUCCO with medium grain • After min. 4 hours, sand and clean	• Prepare the substrate • After 4 hours, apply a coat of NANOSTUCCO with medium grain • After min. 4 hours, sand and clean
2	• Apply a second coat with medium or coarse grain • After almost 4-6 hours from the previous step, sand the second coat and clean carefully	• Apply a coat of fine grained NANOSTUCCO • Apply a second coat with fine grain • Only if you want, sand the second coat and clean carefully	• Apply a second coat of medium grained NANOSTUCCO • After min. 4 hours, sand and clean carefully • Apply a coat of NANOSTUCCO ENDCOAT • Sand and clean carefully after min. 2 hours
3	• After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• After min. 14 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product

APPLICATION AND WATERPROOFING ON TILES

4. The application of low-thick finishes on tiles can be affected by many conditions. The grout's width, the nature of the tile, the absorbency different between the tile and the grout. This creates a series of problems in the classical systems: on the one hand, the substrates have various thicknesses; this causes that the various parts of the material will dry at different times and at the same time the spatula-laying of the material on the tiles with grouts creates inside of the grout a wave that you can easily feel by touching. As a result, the coatings will have an unaesthetic reproduction of the pattern of the substrate surface. The application of the NANOSTUCCO cycle in a layer of about 5 mm allows to solve the problem, making possible a fast and minimally invasive restoring. In the case of renewal of hotels or houses, it will be possible for example to restore a room at once without disrupting business, because there will be no demolition and the material transported will be limited to a few sacks. At the same time in baths or swimming pools, the cycle will also have the function of waterproofing. Of course the system allows a highly customized aesthetic effect through a simple and fast application.



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Preparation of the substrate

1. Proceed with a thorough cleaning of surfaces with a vacuum cleaner. The tiles that sound hollow must be removed and the resulting hole should be restored.
2. Knead - as prescribed in technical data sheet - ISOLMIX RASOCOL 600, the adhesive render coat, hydrophobic and with quick drying and hardening.
3. Apply a coat of ISOLMIX RASOCOL 600 drowning a glass fiber net of at least 180 gr/sqm, mesh 10x10 mm, making sure the joints to overlap at least 50 mm.
4. After about 24 hours under standard conditions, proceed with an accurate sanding of surfaces with a 120-180 grit in order to eliminate trowel lines and to have a perfectly planar surface. The higher the drying time, the lower the tendency to mark the grouts.
5. (optional) In the case of pronounced patterns with grouts very wide and deep, you can apply a second coat and sand it after 6 hours.
6. Proceed with a thorough cleaning of surfaces a with vacuum cleaner in order to prevent sand grains and tiny fragments of mortar from marking NANOSTUCCO during coating or from making the trowel to jump.
7. Mix the product with liquid as prescribed for the type of particle size and the desired effect. In any case, the NANOSTUCCO cycle is very flexible and tolerant on the amount of liquid. The correct quantity is the one that gives the operator the consistency he likes. The general guideline is to add 2/3 of the liquid needed by the powder and mix vigorously for at least 3 minutes. Next add the remaining liquid. The mixture in standard conditions lasts approximately 30 minutes (depending on the temperature). If, after about 10 minutes, it appears that the product thickens, you can proceed with a mixing without risking to break the hold of the material.

Cycle steps to realize the aesthetic effect wished

DAY	ROUGH/GRAINY	VELVET	SMOOTH
1	• Prepare the substrate	• Prepare the substrate	• Prepare the substrate
2	• Apply a coat of NANOSTUCCO with medium or coarse grain • After min. 4-6 hours, sand and clean • Apply a second coat with medium or coarse grain • After almost 4-6 hours from the previous step, sand the second coat and clean carefully	• Apply a coat of medium grained NANOSTUCCO • After min. 4 hours, sand and clean • Apply a coat of fine grained NANOSTUCCO • Apply a second coat with fine grain	• Apply a coat of medium grained NANOSTUCCO • After min. 4 hours, sand and clean • Apply a second coat of medium grained NANOSTUCCO
3	• After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• Only if you want, sand the second coat and clean carefully • After min. 24 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product	• Sand and clean carefully • Apply a coat of NANOSTUCCO ENDCOAT • Sand and clean carefully
4			• After min. 14 hours from the last coat of NANOSTUCCO, apply a first layer of protective product • After 2 hours, apply a second layer of protective product

ROUGH

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Cleaning and maintenance

All versions of NANOSTUCCO are strongly hydrophobic. ROUGH type finish has a very rough and natural aspect. For this reason, it requires more attention in the presence of stains. Never let dry residues of coffee, wine, etc., on the surface even in the presence of protective polyurethane, as the stains may dry inside of the asperities making removal more difficult. The cleaning can be carried out with detergents based on Marseille soap. NANOSTUCCO CARBON SHIELD is an impregnating sealer that does not make film. While ensuring great protection, it still has lower performance compared to a resin barrier. If, over time, you want to renew the protective, you must proceed to a slight removal with abrasive sponge and reapply. If, after years, you want to renew the surface with a new color, just proceed with a light scarification with a180-grit abrasive sponge and repeat the cycle from step 4.

Cycle for ROUGH effect (600 µm)

1. **PREPARATION OF THE SUBSTRATE.** Prepare the substrate according to the type of intervention to be done.

2. **FIRST COAT.** Apply a coat of coarse-grained NANOSTUCCO taking care to limit as much as possible waves and bumps. The application must be made with a stainless steel spatula with filleted edge and rounded corner. A metal spatula for smoothing is likely to stain the material while the sharp edge is likely to create waves.

3. **SANDING (OPTIONAL).** In the case in which the surface of the first coat is not sufficiently planar, sand it with abrasive paper (180-grit). At the end of sanding proceed with a thorough cleaning with a vacuum cleaner.

4. **SECOND COAT**. About 3 hours after the first coat in standard conditions (time depends on the temperature), apply a second coat of NANOSTUCCO always with a spatula being careful to provide the final aesthetic desired aspect. Caution: especially in the floor application, it will be not possible to pass again on the surface; therefore it is necessary to give the final desired effect during application.

5. **SANDING (OPTIONAL).** If necessary, sand with 180-grit to remove ridges made by spatula, taking into account - especially in dark colors - that, where you insist to sand, the ridges tend to lighten or burn. To reduce these effects you can instead use a circular sponge or an abrasive mesh.

6. **CLEANING WITH VACUUM CLEANER.** Caution: do not clean with water because the product is cement based and therefore requires a few days to complete the maturation. The use of water can cause stains and efflorescence.

7. **PROTECTIVE.** Apply a coat of stain resistant protective sealer, according the final aesthetic desired effect. With a stainless steel spatula, apply NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD satinato (the aliphatic polyurethane resins water-diluted) with a consumption of about 200 gr/sqm. Be careful because in case of high temperatures or in case of excessive thickness, shrinkage is likely to occur. Or apply by brush or roller one coat of NANOSTUCCO CARBON SHIELD, the invisible stain resistant impregnating sealer, considering that the product must not stagnate but must simply impregnate.

8. **SECOND COAT OF PROTECTION (OPTIONAL).** Only in the case of polyurethane resins, apply a second coat of NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD 05 satinato.

Mixing

For a correct mixing, add to the powder 2/3 of the liquid needed and mix long with an helix drill, at high speed to be sure that pigments and binders are dispersed. Next add the remaining liquid. Caution: if you add all the liquid at once or if you add the powder into the liquid, it will form lumps. If during the application, some color lines appear, these are due to small amounts of pigments in lumps that haven't be well dispersed. The phenomenon is natural and can be resolved by increasing both the time and the intensity of the mixing.

Tips and warnings

ROUGH type finish is a very rough finish with very natural effect, ideal for external surfaces such as edge pools and spas. Without the application of resins NANOSTUCCO SHIELD 01 and 05, the surface reaches very high values of non-slip. Final effect requires manual dexterity. Therefore we recommend you to prepare some samples in order to determine whether the color and effect are as imagined. The system is purely mineral, based on cement binder, and then it is very important to protect the work from the water in the days after the installation in order to avoid unsightly streaks. It is essential to clean constantly working tools during trowelling, as small lumps of dry material on the spatula can leave marks during installation. The colors are mineral on a mineral system; it is therefore recommended to use homogeneous production batches for the execution of the work in order not to incur in batches with slightly different colorations.

GRAINY

We work every day to improve our products and the application cycles may vary. Before applying NANOSTUCCO, please ask application process to be confirmed.

Cleaning and maintenance

All versions of NANOSTUCCO are strongly hydrophobic. GRAINY type finish has a natural aspect. For this reason, it requires more attention in the presence of stains. Never let dry residues of coffee, wine, etc., on the surface even in the presence of protective polyurethane, as the stains may dry inside of the asperities making removal more difficult. The cleaning can be carried out with detergents based on Marseille soap. NANOSTUCCO CARBON SHIELD is an impregnating sealer that does not make film. While ensuring great protection, it still has lower performance compared to a resin barrier. If over time you want to renew the protective, you must proceed to a slight removal with abrasive sponge and reapply. If, after years, you want to renew the surface with a new color, just proceed with a light scarification with a180-grit abrasive sponge and repeat the cycle from step 4.

Cycle for GRAINY effect (300µm)

1 **PREPARATION OF THE SUBSTRATE.** Prepare the substrate according to the type of intervention to be done.

2 **FIRST COAT.** Apply a coat of medium-grained NANOSTUCCO taking care to limit as much as possible waves and bumps. The application must be made with a stainless steel spatula with filleted edge and rounded corner. A metal spatula for smoothing is likely to stain the material while the sharp edge is likely to create waves.

3 **SANDING (OPTIONAL).** In the case in which the surface of the first coat is not sufficiently planar, sand it with abrasive paper (180/200-grit). At the end of sanding proceed with a thorough cleaning with a vacuum cleaner.

4 **SECOND COAT**. About 3 hours after the first coat in standard conditions (time depends on the temperature), apply a second coat of medium-grained NANOSTUCCO always with a spatula being careful to provide the final aesthetic desired aspect. Caution: especially in the floor application, it will be not possible to pass again on the surface; therefore it is necessary to give the final desired effect during application.

5 **SANDING (OPTIONAL).** If necessary, sand with 180-grit to remove ridges made by spatula, taking into account - especially in dark colors - that, where you insist to sand, the ridges tend to lighten or burn. To reduce these effects you can instead use a circular sponge or an abrasive mesh.

6 **CLEANING WITH VACUUM CLEANER.** Caution: do not clean with water because the product is cement based and therefore requires a few days to complete the maturation. The use of water can cause stains and efflorescence.

7 **PROTECTIVE.** Apply a coat of stain resistant protective sealer, according the final aesthetic desired effect. With a stainless steel spatula, apply NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD satinato (the aliphatic polyurethane resins water-diluted) with a consumption of about 200 gr/sqm. Be careful because in case of high temperatures or in case of excessive thickness, shrinkage is likely to occur. Or apply by brush or roller one coat of NANOSTUCCO CARBON SHIELD, the invisible stain resistant impregnating sealer, considering that the product must not stagnate but must simply impregnate.

8 **SECOND COAT OF PROTECTION (OPTIONAL).** Only in the case of polyurethane resins, apply a second coat of NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD 05 satinato.

Mixing

For a correct mixing, add to the powder 2/3 of the liquid needed and mix long with an helix drill, at high speed to be sure that pigments and binders are dispersed. Next add the remaining liquid. Caution: if you add all the liquid at once or if you add the powder into the liquid, it will form lumps. If during the application, some color lines appear, these are due to small amounts of pigments in lumps that haven't be well dispersed. The phenomenon is natural and can be resolved by increasing both the time and the intensity of the mixing.

Tips and warnings

GRAINY type finish is a medium rough finish with natural effect, ideal for monolithic and highly tactil looking surfaces. Without the application of resins NANOSTUCCO SHIELD 01 and 05, the surface reaches very high values of non-slip. Final effect requires manual dexterity. Therefore we recommend you to prepare some samples in order to determine whether the color and effect are as imagined. The system is purely mineral, based on cement binder, and then it is very important to protect the work from the water in the days after the installation in order to avoid unsightly streaks. It is essential to clean constantly working tools during trowelling, as small lumps of dry material on the spatula can leave marks during installation. The colors are mineral on a mineral system; it is therefore recommended to use homogeneous production batches for the execution of the work in order not to incur in batches with slightly different colorations.

VELVET

We work every day to improve our products and the application cycles may vary. Before applying NANOSTUCCO, please ask application process to be confirmed.

Cleaning and maintenance

All versions of NANOSTUCCO are strongly hydrophobic. VELVET type finish has a natural, smooth and slightly porous aspect. For this reason, it requires more attention in the presence of stains. Never let dry residues of coffee, wine, etc., on the surface even in the presence of protective polyurethane, as the stains may dry inside of the asperities making removal more difficult. The cleaning can be carried out with detergents based on Marseille soap. If over time you want to renew the protective, you must proceed to a slight removal with abrasive sponge and reapply. If, after years, you want to renew the surface with a new color, just proceed with a light scarification with a180-grit abrasive sponge and repeat the cycle from step 4.

Cycle for VELVET effect (50µm)

1 **PREPARATION OF THE SUBSTRATE.** Prepare the substrate according to the type of intervention to be done.

2 **FIRST COAT.** Apply a coat of medium-grained NANOSTUCCO taking care to limit as much as possible waves and bumps. The application must be made with a stainless steel spatula with filleted edge and rounded corner. A metal spatula for smoothing is likely to stain the material while the sharp edge is likely to create waves.

3 **SANDING (OPTIONAL).** In the case in which the surface of the first coat is not sufficiently planar, sand it with abrasive paper (180/200-grit). At the end of sanding proceed with a thorough cleaning with a vacuum cleaner.

4 **SECOND COAT.** About 3 hours after the first coat in standard conditions (time depends on the temperature), apply a second coat of fine-grained NANOSTUCCO always with a spatula being careful to provide the final aesthetic desired aspect. Caution: especially in the floor application, it will be not possible to pass again on the surface; therefore it is necessary to give the final desired effect during application.

5 **THIRD COAT.** About 3 hours after the second coat in standard conditions (time depends on the temperature), if the second coat was not sufficient to fully cover the surface with the desired effect, apply a third coat of fine-grained NANOSTUCCO always with a spatula being careful to provide the final aesthetic desired aspect.

6 **SANDING (OPTIONAL).** In case you want to mat and even the surface, sand with 300 grit to remove ridges made by the spatula, taking into account - especially in dark colors - that, where you insist to sand, the ridges tend to lighten or burn. To reduce these effects you can instead use a circular sponge or an abrasive mesh.

7 **CLEANING WITH VACUUM CLEANER.** Caution: do not clean with water because the product is cement based and therefore requires a few days to complete the maturation. The use of water can cause stains and efflorescence.

8 **PROTECTIVE.** Apply a coat of stain resistant protective sealer, according the final aesthetic desired effect. With a stainless steel spatula, apply NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD satinato (the aliphatic polyurethane resins water-diluted) with a consumption of about 200 gr/sqm. Be careful because in case of high temperatures or in case of excessive thickness, shrinkage is likely to occur.

9 **SECOND COAT OF PROTECTION.** Apply with sptatula a second coat of NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD 05 satinato.

Mixing

For a correct mixing, add to the powder 2/3 of the liquid needed and mix long with an helix drill, at high speed to be sure that pigments and binders are dispersed. Fine-grained products are difficult to hydrate and to mix, especially in huge quantities. We recommend to no exceed 10/12 kg of powder at the time. Next add the remaining liquid. Caution: if you add all the liquid at once or if you add the powder into the liquid, it will form lumps. If during the application, some color lines appear, these are due to small amounts of pigments in lumps that haven't be well dispersed. The phenomenon is natural and can be resolved by increasing both the time and the intensity of the mixing. For small quantities (up to 2 kg), planetary kitchen mixers are very effective.

Tips and warnings

VELVET type finish - especially if spatulated for a long time - is a smooth finish, with natural and velvety effect. Final effect requires manual dexterity. Therefore we recommend you to prepare some samples in order to determine whether the color and effect are as imagined. The system is purely mineral, based on cement binder, and then it is very important to protect the work from the water in the days after the installation in order to avoid unsightly streaks. It is essential to clean constantly working tools during trowelling, as small lumps of dry material on the spatula can leave marks during installation. The colors are mineral on a mineral system; it is therefore recommended to use homogeneous production batches for the execution of the work in order not to incur in batches with slightly different colorations.

SMOOTH

We work every day to improve our products and the application cycles may vary. Before applying NANOSTUCCO, please ask application process to be confirmed.

Mixing (only ENDCOAT)

Mixing has to be made in small quantities. The pot life lasts about 30 minutes and the product has a very low consumption: therefore, we recommend that you do not mix more than 3.2 kg at a time, adding to the powder 2/3 of the liquid needed and mixing long with an helix drill, at high speed to be sure that pigments and binders are dispersed. For such small quantities (up to 2 kg), planetary kitchen mixers are very effective. Fine-grained products however remain difficult to hydrate and to mix. Next add the remaining liquid. Caution: if you add all the liquid at once or if you add the powder into the liquid, it will form lumps. If during the application, some color lines appear, these are due to small amounts of pigments in lumps that haven't be well dispersed. The phenomenon is natural and can be resolved by increasing both the time and the intensity of the mixing.

Cycle for SMOOTH effect

1 **PREPARATION OF THE SUBSTRATE.** Prepare the substrate according to the type of intervention to be done.

2 **FIRST COAT.** Apply a coat of medium-grained NANOSTUCCO taking care to limit as much as possible waves and bumps. The application must be made with a stainless steel spatula with filleted edge and rounded corner. A metal spatula for smoothing is likely to stain the material while the sharp edge is likely to create waves.

3 **SANDING** of the surface with abrasive paper (180/200-grit). At the end of sanding proceed with a thorough cleaning with a vacuum cleaner.

4 **SECOND COAT.** About 3 hours after the first coat in standard conditions (time depends on the temperature), apply a second coat of medium-grained NANOSTUCCO always with a spatula being careful to provide the final aesthetic desired aspect. This is important because the finish made with NANOSTUCCO ENDCOAT reads perfectly the effects of the substrate. Caution: especially in the floor application, it will be not possible to pass again on the surface; therefore it is necessary to give the final desired effect during application.

5 **SANDING** with abrasive paper (180-grit) to eliminate the ridges made by the spatula and to obtain a surface perfectly even.

6 **CLEANING WITH VACUUM CLEANER.** Caution: do not clean with water because the product is cement based and therefore requires a few days to complete the maturation. The use of water can cause stains and efflorescence.

7 **ENDCOAT.** About 3 hours after the second coat in standard conditions, apply with a stucco-worker's spatula a very thin layer of NANOSTUCCO ENDCOAT (about 200 gr/sqm). It is important to let the surface almost clean while applying.

8 **SANDING WITH 200 GRIT.** This step makes the SMOOTH effect to appear, because it reads perfectly the spatola's signs on the substrate. In this way, all the ridges will burn slightly while the valleys are lighter.

9 **SANDING WITH 400 GRIT.** This step allows to have a a perfectly polished surface. Caution: the more you insist in sanding, the more light/dark effect will increase because the spatula ridges will burn more.

10 **CLEANING WITH VACUUM CLEANER.** Caution: do not clean with water because the product is cement based and therefore requires a few days to complete the maturation. The use of water can cause stains and efflorescence.

11 **PROTECTIVE.** Apply a coat of stain resistant protective sealer, according the final aesthetic desired effect. With a stainless steel spatula, apply NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD satinato (the aliphatic polyurethane resins water-diluted) with a consumption of about 200 gr/sqm. Be careful because in case of high temperatures or in case of excessive thickness, shrinkage is likely to occur. Or apply by brush or roller one coat of NANOSTUCCO CARBON SHIELD, the invisible stain resistant impregnating sealer, considering that the product must not stagnate but must simply impregnate.

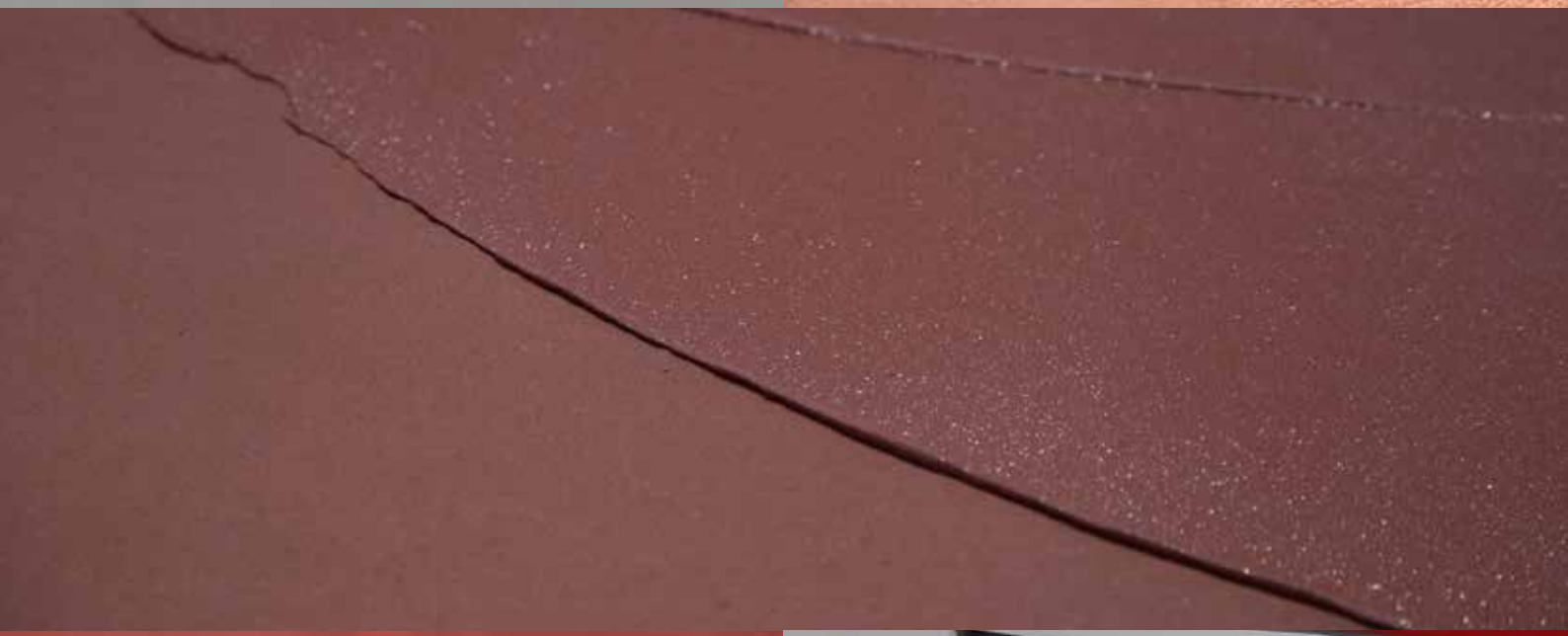
12 **SECOND COAT OF PROTECTION (OPTIONAL).** Only in the case of polyurethane resins, apply a secondo coat of NANOSTUCCO SHIELD 01 lucido or NANOSTUCCO SHIELD 05 satinato.

Cleaning and maintenance

All versions of NANOSTUCCO are strongly hydrophobic. SMOOTH type finish has a natural and really smooth aspect. As a mineral product, it requires more attention in the presence of stains. Never let dry residues of coffee, wine, etc., on the surface even in the presence of protective polyurethane, as the stains may dry inside of the asperities making removal more difficult. The cleaning can be carried out with detergents based on Marseille soap. If, over time, you want to renew the protective, you must proceed to a slight removal with abrasive sponge and reapply. If, after years, you want to renew the surface with a new color, just proceed with a light scarification with a 180-grit abrasive sponge and repeat the cycle from step 4.

Tips and warnings

SMOOTH type finish presents a visually pleasing, very material and rough effect but is extremely smooth to touch. The system is multi tone: it will not be possible to provide the medium grain and the ENDCOAT in the same color. Normally you choose a matching tone on tone, where the ENDCOAT will be clearer. The color also depends on burns during sanding. Final effect requires manual dexterity. Therefore we recommend you to prepare some samples in order to determine whether the color and effect are as imagined. The system is purely mineral, based on cement binder, and then it is very important to protect the work from the water in the days after the installation in order to avoid unsightly streaks. It is essential to clean constantly working tools during trowelling, as small lumps of dry material on the spatula can leave marks during installation. The colors are mineral on a mineral system; it is therefore recommended to use homogeneous production batches for the execution of the work in order not to incur in batches with slightly different colorations.



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