

# Wall2Floor NF system

Seamless system for the decoration of walls and floors.

## DESCRIPTION

**Wall2Floor** is a composite system that enables you to obtain seamless coatings on internal horizontal and vertical surfaces in line with the latest trends for superior civil architecture.

## APPLICATIONS

The **Wall2Floor NF system** offers a perfect decorative system for residential and commercial needs, such as apartments, offices, shops and showrooms. The **Wall2Floor NF system** covers existing finishes for the excellent refurbishment of substrates whether horizontal or vertical.

The **Wall2Floor NF system** can be applied to:

- Concrete.
- Screeds (traditional cement screeds, heated or floating screeds, etc.).
- Surfaces covered with ceramic, porcelain and mosaic tiling.
- Surfaces with existing epoxy or polyurethane coatings.
- Surfaces in natural and rebuilt stone.
- Mineral conglomerates of various kinds, provided they are absorbent.
- New and old plasters based on hydraulic binders.
- Organic or mineral decorative coatings.
- Surfaces in plaster and plasterboard (only vertical).

## Requirements:

Surfaces must be clean, dry and compact and free from flaking, salt bloom or damp, wax, oil and dust.

When applying to heated screeds, ensure that all necessary tests have been completed before the application of the **Wall2Floor NF system** to avoid the formation of condensation, cracks or lesions on the surface, which are in no way connected to the application of the **Wall2Floor NF system**.

In shower stalls that have no ceramic pan, create a slope to allow water to drain.

**Dynamic joints must remain free to absorb any structural movement that may occur; they must not be joined or covered for any reason.**

## UNSUITABLE SUBSTRATES

The **Wall2Floor NF system** cannot be applied to horizontal or vertical surfaces that do not offer the necessary guarantees as regards bonding and dimensional stability.

The following substrates are not suitable:

- Wooden flooring.
- Linoleum.
- Pre-finished wooden flooring.
- Painted and unpainted metal surfaces.
- Glass surfaces or concrete and glass blocks.
- Moist surfaces or surfaces with rising damp.
- Do not apply to bathroom fittings or other substrates where water may collect.

## WARNINGS

Prolonged contact with soaps, oils, creams and liquids in general or with wet objects may lead to stains or smudges on the surface where the contact occurs.

Allow at least four weeks' curing before applying to newly-laid concrete substrates.

The product should be used only by personnel with experience in laying floors.

It is advisable to use material from the same production batch. If different batches are used, we advise mixing the different batches together in order to avoid slight colour differences. For jobs where the use of different production batches is unavoidable, do not apply one colour directly alongside the other. Change the batch where there are breaks in the surfaces, such as mouldings, corners, expansion joints and so on.

Further details may be found in the **WALL2FLOOR NF SYSTEM ANNEX** to the technical data sheet.

## PRODUCTS of the WALL2FLOOR NF SYSTEM

**Wall2Floor Rasal NF:** cementitious skim coat.

**Wall2Floor Top Coat NF:** decorative coating for horizontal and vertical surfaces.

**Wall2Floor Component B:** powder admixture specifically for **Wall2Floor Top Coat NF**.

**Wall2Floor Primer Component A:** component A for high-penetration, two-component primer.

**Wall2Floor Primer Component B:** component B for high-penetration, two-component primer.

**Wall2Floor Clear Finish Matt A:** component A for two-component water-based polyurethane, matt finish.

**Wall2Floor Clear Finish Satin NF A:** component A for two-component water-based polyurethane, satin finish.

**Wall2Floor Clear Finish Glossy A:** component A for two-component water-based polyurethane, glossy finish.

**Wall2Floor Clear Finish NF B:** component B for two-component water-based polyurethane matt, satin and glossy finish.

## PREPARATION OF PRODUCTS OF THE WALL2FLOOR NF SYSTEM

(Reference ambient conditions T=25 °C, R.H.=60%)

### Wall2Floor Rasal NF

Preparing the mix: use 5-6 litres of clean water for each 25 kg bag of product. Pour **Wall2Floor Rasal NF** in the water and blend using a drill with mixing-paddle, for approx. 3 minutes. The mix should be smooth and free of lumps or unmixed product.

Pot life of mix: approx. 60 minutes

### Wall2Floor Top Coat NF

Preparing the mix: before application add a 5 kg pack of **Wall2Floor Component B** to each 15 kg bag of **Wall2Floor Top Coat NF**, using a suitable mechanical stirrer. Blend the mix for approx. 3 minutes.

Dilution: once the two components have been blended to a uniform mix you may add 5% water.

Pot life of mix: approx. 90 minutes

### Wall2Floor Primer

Mixing ratio by weight: 2 parts of **component A** + 1 part of **component B**

Preparing the mix: stir **Wall2Floor Primer Component A** to incorporate any sediment. Pour **Wall2Floor Primer Component B** into **Wall2Floor Primer Component A** and mix by hand for approx. 45-60 seconds.

Dilution: dilute the final mix (0.500 l of component A + 0.250 l of component B) by adding 3 l of water.

A correctly diluted mix of the two components A+B will cover approx. 75-90 m<sup>2</sup>.

Pot life of mix: approx. 60 minutes

### Wall2Floor Clear Finish

Mixing ratio by weight: 10 parts of **component A** + 3 parts of **component B**.

Preparing the mix: stir **Wall2Floor Clear Finish A** to incorporate any sediment. Pour **Wall2Floor Clear Finish NF B** into **Wall2Floor Clear Finish A** and mix by hand for approx. 45-60 seconds. You may also choose to use a mixing-drill with paddle at slow speed for approx. 1 minute.

The final mix will be free of lumps, impurities or unmixed residues of the two components.

Dilution: dilute the final mix (2.500 l of component A + 0.750 l of component B) by adding 0.300-0.400 l of water.

A correctly diluted mix of the two components A+B will cover approx. 20-22 m<sup>2</sup> with two coats.

Before applying each layer of **Wall2Floor Clear Finish NF** we advise filtering the mix using a cloth or nylon filter or a specific paint filter-funnel with a 40-90 micron mesh.

Pot life of mix: approx. 60 minutes

## COVERAGE RATE OF PRODUCTS OF THE WALL2FLOOR NF SYSTEM

**Wall2Floor Rasal NF (referred to powder):** 1.5-2.5 kg/m<sup>2</sup>, with two coats, according to type of application and the state of the substrate.

**Wall2Floor Top Coat NF:** 1.2-1.5 kg/m<sup>2</sup>, with two coats, according to type of application and the state of the substrate.

**Wall2Floor Primer:** 100-120 m<sup>2</sup>/l.

**Wall2Floor Clear Finish NF:** 6-7 m<sup>2</sup>/l, with two coats.

## ANCILLARY PRODUCTS FOR THE WALL2FLOOR NF SYSTEM

**Decofix:** micro emulsion water-based consolidating fixative.

**Wall2Floor Athena:** adhesion primer for ceramic tiles.

## PREPARING THE ANCILLARY PRODUCTS FOR THE WALL2FLOOR NF SYSTEM

**Decofix:** dilute the product with clean water. Dilution will vary depending on the type of substrate to be treated.

For surfaces in plaster and plaster board dilute with water at 50 to 100%.

For surfaces consisting of mineral conglomerates, traditional screeds, new and old plaster based on hydraulic binders, old flaking paints, dilute with water at 100 to 200%.

For stone or concrete substrates dilute with water at 200 to 300%.

**Wall2Floor Athena:** ready to use

## COVERAGE RATE OF THE ANCILLARY PRODUCTS FOR THE SYSTEM

**Decofix:** 8-18 m<sup>2</sup>/l, according to type of substrate and its level of absorption.

**Wall2Floor Athena:** 15-20 m<sup>2</sup>/l, according to type of substrate.

## CLEANING EQUIPMENT

Clean with water immediately after use.

## STORAGE CONDITIONS AND SHELF LIFE

Stability in the original unopened containers, stored under cover and in adequate temperature conditions: 1 year for powdered products, 1 year for the two-component products and two years for the remaining products.

Maximum storage temperature: +30 °C

Minimum storage temperature: +10 °C.

## CLEANING AND MAINTENANCE OF SURFACES

Do not clean the surface for the first time until the coating has hardened, generally, after a period of at least **7 days** (calculated at an average temperature of 25 °C and humidity of 60%). In general, surfaces coated with the **Wall2Floor NF system** can be washed with non-aggressive (**neutral**) detergents in cold or moderately warm water (never wash with temperatures above 40 °C to avoid thermal shock). Do not steam clean. Do not use brushing machines that might affect and alter performance and aesthetic effect. The surfaces exhibit good resistance to a wide variety of substances commonly used in the home and professionally. It is advisable to avoid prolonged contact with possibly aggressive substances by removing them quickly and cleaning with water to avoid possible corrosion of the surface of **Wall2Floor NF**. Avoid prolonged contact with lemon juice, vinegar, tomato juice, descaling products and strongly alkaline or acidic detergents in general that may compromise the surface coated with the **Wall2Floor NF system**. Maintenance, particularly if concentrated on a specific portion of the surface, may be visible. For the maintenance of the surface layer reapply the same finish. Apply the maintenance layer after sanding and cleaning the surface and take care to distribute the product evenly.

## TINTING

Colours are obtainable using the tinting system **Mixcolor by Novacolor**. Only **Wall2Floor Top Coat NF** can be coloured. This operation must always be carried out before the addition of **Wall2Floor Component B**.

See the **Wall2Floor NF** colour chart.

## PRECAUTIONS

Check the suitability and condition of equipment and personal protective equipment (goggles, gloves, knee pads, etc.).

Do not expose the products to direct heat or temperatures below +5 °C for long periods.

If the products are stored at temperatures close to +5 °C, we recommend that prior to use they are placed in an area with higher and more appropriate temperatures so that when they are to be used the product

temperature will not be below +10 °C. Do not heat the products using a direct source of heat, flame, heat element or similar.

Low temperatures increase the pot viscosity making the mix difficult to use and lengthening or inhibiting the drying and hardening process of the various products.

If the **Wall2Floor NF system** is to be applied on both vertical and horizontal surfaces in the same environment, we recommend applying the system firstly to vertical surfaces and then to the horizontal surfaces.

Through all the phases of application of the **Wall2Floor NF system**, adhesive tape must only be removed once the hardening of each layer is complete.

Pay particular attention when applying the product inside shower stalls or on other surfaces exposed to contact with water. Do not leave pools of water in prolonged contact with the surface.

It is good practice to always use new or thoroughly cleaned equipment; if necessary replace tools after each application cycle.

### **ENVIRONMENTAL CONDITIONS FOR APPLICATION**

The products must be protected from freezing and thermal shock throughout the entire application process. Do not apply when air, substrate or product temperatures are below +10 °C or above +35 °C, or under direct sunlight or on hot surfaces (even when in shadow).

The required environmental and substrate conditions for the application of the **Wall2Floor NF system** are:

- Ambient temperature: Min. +10 °C / Max. +30 °C.
- Relative ambient humidity: <75%.
- Substrate temperature: Min. +10 °C / Max. +30 °C.
- Humidity of substrate: <4%

Failure to observe the conditions listed above may cause flaws or defects in the physical and chemical characteristics of the products and affect the aesthetic performance of the **Wall2Floor NF system**.

Ensure that a correct quantity of product is applied, especially where there are corners, sharp edges, steps or risers. It is advisable to protect corners, sharp edges, steps and risers, with suitable edge protection.

## **SURFACE PREPARATION AND APPLICATION**

(Reference ambient conditions T=25 °C, R.H.= 60%)

The aim of preparing the substrate is to create optimal conditions that will ensure that the final result is technically sound and the performance of the system is adequate. The most common methods of pre-treatment include hydro-washing, acid washing, sanding and diamond grinding. Diamond grinding is the most appropriate solution as it does not involve the use of water and so there is no drying time and it leaves no residue of cleaning chemicals.

The substrate must be clean and dry. Remove all material and dirt that may prevent the system from adhering properly to the support such as cement grout, dust and loose and flaking material, oil and grease, waxes of whatever nature, sealants and water-repellent silicone, salt bloom or chemical contaminants.

### **Absorbent horizontal surfaces (stone surfaces, concrete, screeds):**

Where the substrate is not uniform and levels of absorption vary, apply a layer of suitably diluted **Decofix** with a brush.

After about 2-4 hours apply the first layer of **Wall2Floor Rasal NF** onto the clean and dry substrate, using a stainless steel trowel. Incorporate an alkali resistant fiberglass mesh with nominal weight between 80-90 ± 5%g/m<sup>2</sup> in the first layer of **Wall2Floor Rasal NF**. Draw the ends close without overlapping.

Wait for the surface to dry, usually between 6-8 hours, and then apply a second layer of **Wall2Floor Rasal NF** with stainless steel trowel to level the surface. Continue to work the wet surface to make it more compact.

Once dry, approx. 6-8 hours after application, use a stainless steel trowel to apply a first layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B** to smooth the surface.

Wait for the surface to dry, usually between 6-8 hours, and then apply a second layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B**, and work the surface to obtain the desired aesthetic effect.

After roughly 4-6 hours, when the surface is dry, remove any build-up of material by sanding with P 400 sandpaper. Then thoroughly clean the sanded surface by aspiration to avoid accumulation of dust or particles that could impede bonding.

Apply a coat of diluted **Wall2Floor Primer** using either a mohair roller or a roller suitable for enamel paints. Spread the product evenly and smoothly over the entire surface, ensuring saturation according to substrate porosity.

**Throughout each stage of finishing, do not wait more than 72 hours before applying a coat over the preceding layer.**

After roughly 10-12 hours, apply the first coat of diluted **Wall2FloorClear Finish NF** onto a clean and dry substrate, using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Allow this layer to dry thoroughly, normally between 4-6 hours, then apply a second coat of diluted **Wall2Floor Clear Finish NF** using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Wait at least 24 hours before walking over the treated surface.

Complete cure: **7 days**



**Non-absorbent horizontal (surfaces coated with ceramic, mosaic, grès tiling):**

Check that the substrate is completely flat by using a straight edge and if necessary sand any protruding parts with a diamond wheel. Ensure adhesion of the coating by beating the substrate. Remove any loose or flaking parts and repair any parts of the substrate that are missing or uneven using a similar product to reconstruct a perfectly flat surface.

If there are grout lines that are deeper or wider than 5 mm, **you must** grout these with a suitable product before applying the **Wall2Floor NF system**.

Remove all dirt from the surface, remove any residual powder and apply a layer of **Wall2Floor Athena** over the entire surface, including joints and edges, using a short nap roller.

To ensure adequate bonding, wait for a period between 8 and 48 hours after the application of the layer of **Wall2Floor Athena** before applying any subsequent coats of the components of the **Wall2Floor NF system**.

After waiting the required time as described above, apply the first layer of **Wall2Floor Rasal NF** using a stainless steel trowel. Incorporate an alkali resistant fiberglass mesh with nominal weight between 80-90 ± 5% g/m<sup>2</sup> in the first layer of **Wall2Floor Rasal NF**. Draw the ends close without overlapping.

Wait for the surface to dry, usually between 6-8 hours, and then apply a second layer of **Wall2Floor Rasal NF** with stainless steel trowel to level the surface. Continue to work the wet surface to make it more compact.

Once dry, approx. 6-8 hours after application, use a stainless steel trowel to apply a first layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B**, to smooth the surface.

Wait for the surface to dry, usually between 6-8 hours, and then apply a second layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B**, and work the surface to obtain the desired aesthetic effect.

After roughly 4-6 hours, when the surface is dry, remove any build-up of material by sanding with P 400 sandpaper. Then thoroughly clean the sanded surface by aspiration to avoid accumulation of dust or particles that could impede bonding.

Apply a coat of diluted **Wall2Floor Primer** using either a mohair roller or a roller suitable for enamel paints. Spread the product evenly and smoothly over the entire surface, ensuring saturation according to substrate porosity.

**Throughout each stage of finishing, do not wait more than 72 hours before applying a coat over the preceding layer.**

After roughly 10-12 hours, apply the first coat of diluted **Wall2Floor Clear Finish NF** onto a clean and dry substrate, using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Allow this layer to dry thoroughly, normally between 4-6 hours, then apply a second coat of diluted **Wall2Floor Clear Finish NF** using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Wait at least 24 hours before walking over the treated surface.

Complete cure: **7 days**

**Absorbent vertical surfaces (mineral conglomerates of various kinds, new and old plaster based on hydraulic binders, stone surfaces, concrete, plasterboard, organic coatings):**

Generally, the process for the application of the **Wall2Floor NF system** on vertical surfaces follows the guidelines outlined for application on absorbent horizontal surfaces.

You need not apply **Wall2Floor Rasal NF** unless the substrate shows particular defects or lacks sufficient preparation, or where there are repairs, track marks, section repairs etc.

To apply the **Wall2Floor NF system** on supports of these kinds you must proceed as follows:

Where the substrate is not uniform and levels of absorption vary, apply a layer of suitably diluted **Decofix** with a brush.

Once dry, approx. 2-4 hours after application, use a stainless steel trowel to apply a first layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B**, to smooth the surface.

Wait for the surface to dry, usually between 6-8 hours, and then apply a second layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B**, and work the surface to obtain the desired aesthetic effect.

After roughly 4-6 hours, when the surface is dry, remove any build-up of material by sanding with P 400 sandpaper. Then thoroughly clean the sanded surface by aspiration to avoid accumulation of dust or particles that could impede bonding.

Apply a coat of diluted **Wall2Floor Primer** using either a mohair roller or a roller suitable for enamel paints. Spread the product evenly and smoothly over the entire surface, ensuring saturation according to substrate porosity.

**Throughout each stage of finishing, do not wait more than 72 hours before applying a coat over the preceding layer.**

After roughly 10-12 hours, apply the first coat of diluted **Wall2Floor Clear Finish NF** onto a clean and dry substrate, using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Allow this layer to dry thoroughly, normally between 4-6 hours, then apply a second coat of diluted **Wall2Floor Clear Finish NF** using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Touch dry after 24 hours.

Complete cure: **7 days**

**Non-absorbent vertical (surfaces coated with ceramic, mosaic, grès tiling):**

Check that the substrate is completely flat by using a straight edge and if necessary sand any protruding parts with a diamond wheel. Ensure adhesion of the coating by beating the substrate. Remove any loose or flaking parts and repair any parts of the substrate that are missing or uneven using a similar product to reconstruct a perfectly flat surface.

If there are grout lines that are deeper or wider than 5 mm, you must grout these with a suitable product before applying the **Wall2Floor NF system**.

Remove all dirt from the surface, remove any residual powder and apply a layer of **Wall2Floor Athena** over the entire surface, including joints and edges, using a short nap roller.

To ensure adequate bonding, wait for a period between 8 and 48 hours after the application of the layer of **Wall2Floor Athena** before applying any subsequent coats of the components of the **Wall2Floor NF system**.

After waiting the required time as described above, apply the first layer of **Wall2Floor Rasal NF** using a stainless steel trowel. Incorporate an alkali resistant fiberglass mesh with nominal weight between  $80-90 \pm 5\% \text{ g/m}^2$  in the first layer of **Wall2Floor Rasal NF**. Draw the ends close without overlapping.

Wait for the surface to dry, usually between 6-8 hours, and then apply a second layer of **Wall2Floor Rasal NF** with stainless steel trowel to level the surface. Continue to work the wet surface to make it more compact.

Once dry, approx. 6-8 hours after application, use a stainless steel trowel to apply a first layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B**, to smooth the surface.

Wait for the surface to dry, usually between 6-8 hours, and then apply a second layer of **Wall2Floor Top Coat NF**, previously mixed with **Wall2Floor Component B**, and work the surface to obtain the desired aesthetic effect.

After roughly 4-6 hours, when the surface is dry, remove any build-up of material by sanding with P 400 sandpaper. Then thoroughly clean the sanded surface by aspiration to avoid accumulation of dust or particles that could impede bonding.

Apply a coat of diluted **Wall2Floor Primer** using either a mohair roller or a roller suitable for enamel paints. Spread the product evenly and smoothly over the entire surface, ensuring saturation according to substrate porosity.

**Throughout each stage of finishing, do not wait more than 72 hours before applying a coat over the preceding layer.**

After roughly 10-12 hours, apply the first coat of diluted **Wall2Floor Clear Finish NF** onto a clean and dry substrate, using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Allow this layer to dry thoroughly, normally between 4-6 hours, then apply a second coat of diluted **Wall2Floor Clear Finish NF** using either a mohair roller or a roller suitable for enamel paints.

Spread the product evenly and over the entire surface, avoiding build-up. Be especially careful when applying around corners and edges.

Touch dry after 24 hours.

Complete cure: **7 days**

#### **SAFETY**

**Irritant / risk of serious damage to eyes / skin irritant / keep out of the reach of children / avoid contact with eyes / in case of contact with eyes, rinse immediately with plenty of water and seek medical advice / wear suitable gloves and protect eyes / face / do not breathe dust / if swallowed, seek medical advice immediately and show this container or label.**

**The product must be transported, used and stored in accordance with current legislation concerning health and safety; let residues dry out completely and treat them as special waste.**

**For further information, consult the MSDS.**

N.B. COLORIFICIO NOVACOLOR guarantees that the information herein is provided to the best of its experience and its technical and scientific knowledge; however, it cannot assume any responsibility for the results obtained using these products since the conditions of application are beyond its control. We recommend that you always check the suitability of the product to each specific use. This current edition supersedes all previous information sheets.