

Annexto Wall2floor System (Wall2floor Rasal, Wall2floor Top Coat, Wall2floor Clear Finish Bi-Component)

Tests and requirements	Performance	Note
UNI EN13892-8; 2004: Determination of adhesion to the concrete support MC (0,40) UNI EN 1766 Adhesion classes (N·mm ²): B0,5 ; B1 ; B1,5 ; B2 Type of rupture: X= rupture of cohesion in concrete support X/Y= break between the support and the screed Y= rupture of cohesion in the screed Z= break between the bonding layer and the plate with head traction	Classe B1 ; >1 N·mm ² Y= rupture of cohesion in the screed	
UNI EN 13892-4: Determination of abrasion resistance BCA, on concrete support UNI EN 13892-1 AR Classes (maximum depth of wear in µm):	Classe AR6 : 600 µm abrasi	1
UNI EN ISO 6272: Determination of the support resistance to impact MC (0,40) UNI EN 1766 IR Strength classes (followed by a number indicating the impact resistance in N·m)	IR 10 (equal to the fall of a sphere with mass 1000 g from a height of 1 m)	

Note:

- 1) **AR6 Class**: the product is considered "unfit for highly stressed surfaces or in presence of high mechanical abrasion such as shopping trolleys or similars"

PERFORMANCES ACCORDING TO EN 1504-2

Wall2floor Clear Finish Bi-Component

Tests and requirements	Performance	Note
UNI EN ISO 7783-2: Determination and classification of the degree of transmission of water vapor, (permeability) V is the degree of vapor transmission of the coating in g / (m ² · d) and SD is the equivalent air layer thickness in meters (m) I Class: Sd < 5 m (water vapor permeability) II Class: 5m ≤ Sd ≤ 50 m III Class: Sd > 50 m (non-permeable to water vapor)	I Class Sd 2,11 m	
UNI UN 1062-3: Capillary absorption and water permeability. w is calculated at 24 hours and is expressed in kg / (m ² · h ^{0,5}) When the capillary absorption of water is < 0,01 Kg · m ⁻² · h ^{-0,5} the product is considered impermeable to the diffusion of chloride ions	< 0,01 Kg · m ⁻² · h ^{-0,5} (impermeable to chlorides)	2
EN 13036-4 Determination of the slip resistance / friction of a surface I Class: wet test for interior surfaces: unit ≥ 40 II Class: dry test for interior surfaces: unit ≥ 40	I Class: 29 unit II Class: 50 unit	3
UNI EN ISO 5470-1: Determination of wear resistance Abrasion Test Equipment Taber (mole H22; load 1000 grammi; 1000 rpm) Result expressed in mg as loss of weight of the sample.	Loss of weight 41 mg: excellent	
UNI EN 13529, Determination of the resistance to severe chemical attacks. Concrete support type C (0,45) EN 1766 Test fluid – 12) Water solution of inorganic salts non-oxidizing with pH=6÷8 Contact time: none, 3 days, 28 days Evaluation of alteration after exposure Determination of the value of hardness Shore D in accordance with standard UNI EN ISO 868	No day of contact Hardness 82 After 3 days of contact, No alteration Hardness 82 After 28 days of contact, No alteration Hardness 80	

Note:

- 2) The product is classified as water-resistant if in contact with water for short time. If required, it allows interventions for good surface protections.
- 3) **I Class:** wet test for interior surfaces. In presence of values lower than 40 units, the product could not be suitable for applications in public areas according to safety regulations in force in different countries.

Athena

Base coat for perfect adherence on ceramic coatings

DESCRIPTION OF THE PRODUCT

Athena is made of acrylic water-based polymers and selected additives which gives to the product an excellent adherence on smooth surfaces such as tiles, grès, mosaics or similar.

USES

It can be applied on difficult surfaces: tiles, grès, mosaics.

IDENTIFICATION FEATURES

Density: 1.40 +/- 0.05 g/l

Viscosity (packaging): 7800 +/- 500 cps at 25°C

Drying process (at 25°C and 65% of humidity): to the touch 1 hour; it can be painted over after at least 8 hours, and within 48 hours.

PERFORMANCES

Athena is a base coat which grants a perfect link with the surface that must be covered with Wall2Floor Rasal, creating in this way a suitable surface for the application of the "Wall2Floor System".

SUBSTRATE PREPARATION

See the technical data sheet of the "Wall2Floor System".

APPLICATION TECHNIQUE

See the technical data sheet of the "Wall2Floor System".

RECOMMENDATIONS

See the technical data sheet of the "Wall2Floor System".

DILUTION

The product is ready for use. Maximum dilution: 10%.

Shake the product before the use.

TOOLS CLEANING

With Water immediately after their use.

YIELD

15-20 m²/l. each coat, depending on the kind of substrate.

COLOURS

White. It cannot be tinted.

PACKAGES

5 l., 15l. cans.

SHELF LIFE

The packaged product is guaranteed for 24 months, if stored in the original sealed package and at temperatures between +5°C and +35°C.

SECURITY PROCEDURES

EU Directive 2004/42/CE:

Cat. I: mono-component paints with high performances (water-based): 140 g/l (2010).

Athena contains maximum 140 g/l of COV.

The product does not require the label as per the D.L. 65 dated 14/03/03 and following corrections. Use the products as per the security and hygiene procedures rules. Dispose of the empty packaging remaining material in compliance with local laws. Keep the product away from children usage and in an airy place.

In case of contact with eyes, wash them immediately with water. In case of ingestion of the products, consult immediately a doctor showing him the can or the label of the product. Do not leave wastes in drains, water courses and on the ground.

For further information consult the safety data sheet.

N.B.- The information reported in this technical data sheet comes from our best experience; however this doesn't involve any responsibility of our Company for applications of this products without our direct supervision.

Wall2Floor System

Mineral seamless system for the decoration of walls and floors

DESCRIPTION

Wall2Floor is a mineral system for the decoration of horizontal and vertical surfaces which allows to obtain a seamless and continuous coating in both vertical and horizontal surfaces.

Wall2Floor allows to obtain three different decorative effects:

- "Concrete-look" effect
- Washed-cement effect
- "Marble-stone" effect

USES

Decoration of highly valuable interiors in compliance with current trends in fashion and architecture. The "Wall2floor" System represents an excellent and elegant furniture background which can be used in residential civil constructions only.

The "Wall2Floor System", can be applied over:

- Various absorbent lime-based plasters and mortars;
- New or pre-existing plasters based-on hydraulic binders;
- Tiled surfaces with different materials as ceramics, grès;
- Stone surfaces;
- Concrete substrates;
- Plasterboards surfaces;
- Organic coatings;
- Surfaces with under-floor heating system;

Requirements:

Before applying the Wall2Floor System on under-floor heated surfaces, please ensure that all the required tests have been made in order to avoid any condensation and/or cracks which cannot be related in any case to the Wall2Floor System.

Do not apply on bathroom fittings or on any other support where standing water may occur. On shower stalls with no ceramics, make the proper slopes for the drainage of water. Prolonged contact with soaps, oils, liquids and wet objects in general can cause stains over the surface exposed to contact. Do not apply in presence of humidity from the bottom to the top. Surfaces must be clean, dry and dust-free with no salt stains, no wax and oil presence.

Do not apply on wet surfaces and, on new cement-base surfaces, wait a maturation-time of at least 4 weeks.

We recommend the application of Wall2Floor System to skilled-professionals only with awareness over the flooring industry.

Notes of the annex file:

- 1) **AR6 Class:** the product is considered "unfit for highly stressed surfaces or in presence of high mechanical abrasion such as shopping trolleys or similars"
- 2) The product is classified as water-resistant if in contact with water for short time. If required, it allows interventions for good surface protections.
- 3) **I Class:** wet test for interior surfaces. In presence of values lower than 40 units, the product could not be suitable for applications in public areas according to safety regulations in force in different countries.

Further details can be found on the annex file to **WALL2FLOOR SYSTEM** attached to the Technical Data Sheet.

WALL2FLOOR SYSTEM PRODUCTS

Wall2Floor Rasal: Smoothing cement preparation

Wall2Floor Top Coat: Lime-based decorative coating

Wall2Floor Component B: Specific additive in powder for Wall2Floor Top Coat.

Wall2Floor Clear Finish Bi-Component: Bi-component polyurethane protective finish, matt, resistant to abrasion.

PRODUCTS PREPARATION for WALL2FLOOR SYSTEM

Wall2Floor Rasal: Use 5-6 Lt of clean water for each 25 Kg sack. Mix the product with a drill fitted with a whisk for 3 minutes. Product pot life: approx. 120 minutes.

Wall2Floor Top Coat: Mix each can of Wall2Floor Top Coat 15 Kg with a sack of Wall2Floor Component B 5 Kg using a mechanical drill/agitator for 3 minutes.

Product pot life: approx. 120 minutes.

Wall2Floor Clear Finish Bi-Component:

Preparation of the mixture:

While mixing the two components it is strictly recommended to stick the following steps:

- Pour slowly and carefully **Wall2Floor Clear Finish Component B** into **Wall2Floor Clear Finish Component A** using a mechanical drill
- When the mixing phase is ended up, proceed diluting gently with water using the same drill with a whisk.
- It is recommended to filter the mixture before the application

Product pot life: approx. 120 minutes.

EFFECTS

Different Wall2Floor decorative effects can be achieved working properly into the last layer of the Top Coat.

Concrete-look effect:

Compact the surface with a stainless steel trowel until achieving a surface partly smooth and partly rough.

Washed cement effect:

Compact the surface with a stainless steel trowel until achieving a surface partly smooth and partly rough. Then, make some streaks and stripes using a wet trowel or a wet brush; the amount of stripes and the direction of them is at totally discretion of the applicator depending on the effect to be reached. After 3-5 minutes, work again into the surface in the same direction of the stripes using a stainless steel trowel trying to make it compact.

Marble-stone effect:

Work the surface with a stainless steel trowel compacting and burnishing it out until obtaining the typical lime-based effect. If required, use a water spray during the application.

YIELD

Wall2Floor Rasal: 2–3 kg/m², for two layers depending on the application technique and the substrate condition

Wall2Floor Top Coat: 2–3 kg/m², for two layers depending on the application technique and the substrate condition.

Wall2Floor Clear Finish Bi-Component:

10-12 m²/l, for three layers, depending on the final effect and the substrate absorption rate.

COMPLEMENTARY PRODUCTS

Novaprimer: Pigmented acrylic primer with fine quartz flour

Athena : Special primer for ceramic coatings

Wall2Floor Clear Finish Mono-component: Mono-component polyurethane finish, matt, for vertical surfaces.

COMPLEMENTARY PRODUCTS PREPARATION

Novaprimer: 50-80% with water.

Athena : ready-to-use

Wall2Floor Clear Finish Monocomponent: max dilution 40% with water.

YIELD FOR COMPLEMENTARY PRODUCT

Novaprimer: 8-10 m²/l, depending on the kind of substrate and its absorption rate

Athena: 15-20 m²/l, depending on the kind of substrate

Wall2Floor Clear Finish Monocomponent:

10-12 m²/l, for three layers, depending on the final effect and the substrate absorption rate.

TOOLS CLEANING

Clean immediately the tools with water after use

SHELF-LIFE

The packaged products - if stored properly in a covered warehouse at a temperature between +5° C e +35° C and in its

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original and sealed packaging - have a shelf-life of 12 months approx.

CLEANING AND MAINTENANCE OF THE SURFACES

It is recommended to clean up the surfaces using non-aggressive and neutral cleansers. The maintenance should be done after sanding and cleaning up the surface using the same finish already applied-on. Distribute the product evenly over the surface and finish it off with a sponge trowel. For the maintenance of vertical surfaces only, except those inside showers, it is possible the application of Wall2floor Clear Finish Monocomponent Maintenance interventions may be visible.

TINTING

The Wall2Floor Top Coat can be tinted using the **Mixcolor by Novacolor** Tinting System. The Wall2Floor Top Coat only can be tinted. As usual, the tinting phase should be done before adding **Wall2Floor Component B**.

If different batches of manufactures are used, it is recommended to mix them in order to avoid slight different shades. If possible, use the same batch of manufacture. For projects where a new batch of manufacture is used, it is not recommended to put the batches contiguously, but use any interruption of the surface, such as mouldings, joints, corners or other for the transition.

RECCOMENDATIONS

Keep the product protected from intense cold and from sudden changes of temperatures during the application cycle.

Do not apply with air temperature lower than 5°C and higher than 35° C. or under direct sunlight or on hot surfaces (even if already in shadow). Be sure to put the necessary amount of product especially in presence of corners, edges and steps. Use suitable edge protections. It is recommended to pay particular attention to the application of the system in shower stalls or other surfaces exposed to the contact with water. Do not leave standing water to prolonged contact with the surface. For expansion joints already done, simply cover them with suitable silicones.

SAFETY INSTRUCTION

Irritating to eyes, respiratory system and skin / Risk of serious damage to eyes / May cause sensitization if in touch with skin / Harmful to aquatic organisms / May cause long-term damages in the aquatic environment / keep the product away from the children / Do not breathe any dust / Avoid contact with eyes and skin / In case of contact with eyes, wash them immediately with clean water and consult a doctor / Do not throw the product into drains / Use protective clothing and gloves / If swallowed, seek medical advice showing the doctor the container or the label.

Danger labelling under directives 67/548/CEE and 1999/45/CE and following amendments and adjustments. The product must be transported, used and stored according to current standards

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Technical Data Sheet: Wall2Floor System

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of hygiene and safety; let dry out the waste product completely and treat them as special/hazardous waste. For further

information, please consult the Technical Data Sheet of each product.

N.B.- The information reported in this technical data sheet comes from our best experience; however this doesn't involve any responsibility of our Company for applications of this products without our direct supervision.

SUBSTRATE PREPARATION AND APPLICATION TECHNIQUE

(Weather conditions T=25° UR=60%)

Absorbent horizontal surfaces :

(Stone surfaces - Concrete)

In case of non-homogeneous surfaces with different level of absorption, apply one layer of **Novaprimer** with roller or brush.

After at least 4 hours, apply one coat of **Wall2Floor Rasal** with a stainless steel trowel. Incorporate in the first coat of Wall2Floor Rasal a fiber glass net/mesh with anti-alkali treatment, nominal weight gr/m^2 $150 \pm 5\%$, taking care to overlap the nets considering a width of at least 10 cm. After at least 24 hours, proceed with the application of a second layer of Wall2Floor Rasal levelling the surface with the same stainless steel trowel.

Wait 24 hours before the application of **Wall2Floor Top Coat** using a stainless steel trowel. Pay attention to cover the surface evenly and then work again the surface properly with the same trowel. After at least 8 hours and no more than 48 hours later, apply a second layer of Wall2Floor Top Coat working into the surface with the same stainless steel trowel until achieving the desired effect.

After at least 72 hours apply one coat of **Wall2Floor Clear Finish Bi-Component** previously diluted with 40% of water. Distribute the product evenly over the entire surface using a sponge trowel. After 4-6 hours, proceed with the application of a second layer of Wall2Floor Clear Finish Bi-Component diluted with 20% of water. Distribute the product evenly over the entire surface using a sponge trowel. For surfaces where a higher mechanical and chemical resistant is required, we recommend a further layer of Wall2Floor Clear Finish Bi-Component not diluted within 4-6 hours and no later than 72 hours. Distribute the product evenly over the entire surface using a sponge trowel.

Wait 24 hours before walk on the treated surface. Hardening time: **7gg**

Non-Absorbent horizontal surfaces:

(Tiled surfaces with materials such as ceramic mosaic – grès)

Apply **Athena** with a short-hair roller covering the entire surface, joints and edges included.

After 4 hours and no more than 48 hours later, apply one layer of **Wall2Floor Rasal** with a stainless steel trowel.

Incorporate in the first coat of Wall2Floor Rasal a fiber glass net/mesh with anti alkali treatment, nominal weight gr/m^2 $150 \pm 5\%$, taking care to overlap the nets with a width of at least 10 cm.

After at least 24 hours, proceed with the application of a second layer of Wall2Floor Rasal levelling the surface with the same stainless steel trowel.

Wait 24 hours before the application of **Wall2Floor Top Coat** using a stainless steel trowel. Pay attention to cover the surface evenly and then work again the surface properly with the same trowel. After at least 8 hours and no more than 48 hours later, apply a second layer of Wall2Floor Top Coat working into the surface with the same stainless steel trowel until achieving the desired effect.

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Wait 24 hours before walk on the treated surface. Hardening time: **7gg**

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Absorbent Vertical Surfaces:

(Various mineral conglomerates – New or pre-existing plasters based-on hydraulic binders – Stone surfaces – Concrete substrates – Plasterboard surfaces – Organic coatings)

In case of non-homogeneous surfaces with different level of absorption, apply one layer of **Novaprimer** with roller or brush.

Apply one coat of **Wall2Floor Rasal** previously prepared using a stainless steel trowel trying to level the surface properly.

In case of non-homogeneous and non-smooth substrate, due for example to the installation of technical systems (lighting, water) it is recommended to incorporate in the first layer of **Wall2Floor Rasal** a fiber glass net/mesh with anti alkali treatment, nominal weight gr/m^2 $150 \pm 5\%$, taking care to overlap the nets considering a width of at least 10 cm from the top to the bottom.

After at least 24 hours, proceed with the application of a second layer of **Wall2Floor Rasal** levelling the surface with the same stainless steel trowel.

Wait 24 hours before the application of **Wall2Floor Top Coat**. Pay attention to cover the surface evenly with a stainless steel trowel and then work again the surface with the same trowel. After at least 8 hours and no more than 48 hours later, apply a second layer of **Wall2Floor Top Coat** working into the surface with the same stainless steel trowel until achieving the desired effect.

After at least 72 hours apply one coat of **Wall2Floor Clear Finish Bi-Component** previously diluted with 40% of water. Distribute the product evenly over the entire surface using a sponge trowel. After 4-6 hours, proceed with the application of a second layer of **Wall2Floor Clear Finish Bi-Component** diluted with 20% of water. Distribute the product evenly over the entire surface using a sponge trowel. For surfaces where a higher mechanical and chemical resistant is required, we recommend a further layer of **Wall2Floor Clear Finish Bi-Component** not diluted within 4-6 hours and no later than 72 hours. Distribute the product evenly over the entire surface using a sponge trowel.

Non-Absorbent Vertical Surfaces:

(Tiled surfaces with materials such as ceramic mosaic – grès)

If necessary to repair missing parts of the coating, use **Wall2Floor Rasal** with a stainless steel trowel; maximum thickness for layer 10 mm. Then wait at least 24 hours.

Apply **Athena** with a short-hair roller covering the entire surface, joints and edges included.

After 4 hours and no more than 48 hours later, apply one layer of **Wall2Floor Rasal** with a stainless steel trowel.

Incorporate in the first coat of **Wall2Floor Rasal** a fiber glass net/mesh with anti alkali treatment, nominal weight gr/m^2 $150 \pm 5\%$, taking care to overlap the nets with a width of at least 10 cm.

After at least 24 hours, proceed with the application of a second layer of **Wall2Floor Rasal** levelling the surface with the same stainless steel trowel.

Wait 24 hours before the application of **Wall2Floor Top Coat** using a stainless steel trowel. Pay attention to cover the surface evenly and then work again the surface properly with the same trowel. After at least 8 hours and no more than 48 hours later, apply a second layer of **Wall2Floor Top Coat** working into the surface with the same stainless steel trowel until achieving the desired effect.

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