

VALPAIN[®]

i-beton
PLUS

TECHNICAL PAMPHLET

(EN)



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THE SURFACE

There are countless different types of surfaces, which is why it's important to carefully examine the structural condition of your surface before applying VALPAINT I-BETON PLUS, in order to determine whether or not the cycle can be carried out and what interventions may be necessary to enable it.

FACTORS TO TAKE INTO CONSIDERATION

Adhesion

Check that the surface adheres perfectly by tapping it. If there are any loose parts, these must be removed and repaired with a similar material.

Compactness

Check that the surface is cohesive and compact through a qualitative scratch resistance test. Using a pointed screwdriver, exert pressure on the support: if this is engraved or removed, it is not suitable for the VALPAINT I-BETON PLUS cycle.

Moisture level

Measure the moisture level of the surface at as many points as possible using a suitable hygrometer (e.g. a contact probe) in order to form a clear picture. If you are dealing with recently laid screed or very extensive surfaces, carry out a more accurate and detailed measurement of the interior using a carbide hygrometer. If the moisture level of the surface is greater than 3%, we do not recommend applying VALPAINT I-BETON PLUS.

Flatness

Use a straight edge tool to check for flatness, resolving any unevenness between adjacent tiles by carefully grinding them with a diamond disc grinder featuring a dust extraction system. Afterwards, remove all dust and wash and dry the surface well before proceeding.

Existence of ground-bearing slabs, ventilated crawl spaces or intermediate floor slabs

Surfaces and bases which rest on ground-bearing slabs, ventilated crawl spaces or intermediate floor slabs must be insulated from the load-bearing surface with thorough waterproofing, using specific materials and a vapour barrier. As always, check the moisture level afterwards and if it is still above 3%, do not apply the VALPAINT I-BETON PLUS cycle.

Temperature

Always check that the temperature of the room and of the support surface is between +15°C and +30°C at the time of application, in order to ensure suitable conditions for the application of the products.

SURFACE TYPES BY NATURE AND ABSORPTION CAPACITY

Surface types can be categorised as ABSORBENT and NON-ABSORBENT.

ABSORBENT SURFACES:

CONCRETE

- must be free from dust, wax, grease, silicone, soap and anything else that may prevent adherence. VALPAINT I-BETON PLUS may only be applied to suitably solid and clean support surfaces, so that the products of the VALPAINT I-BETON PLUS decorative system adhere perfectly, with no possibility of flaking.
- must have a pull-off strength of > 1.5 MPa, certified in accordance with standard ASTM D 4541.
- must have a compressive strength of > 25 N/mm², pursuant to standard UNI EN 13892-2.
- joints are generally created on large surfaces, which may be categorised as dynamic or static depending on their function. Dynamic joints must be left free in order to ensure that they can absorb any movements in the structure. Static joints, which serve the sole function of preventing the stress that can build up while the concrete dries, can be sealed after a certain period of time using appropriate epoxy plasters.
- allow fresh concrete surfaces to cure for at least 28 days.



CONCRETE

SCREED

- must be free from dust, wax, grease, silicone, soap and anything else that may prevent adherence. VALPAINT I-BETON PLUS may only be applied to suitably solid and clean support surfaces, so that the products of the VALPAINT I-BETON PLUS decorative system adhere perfectly, with no possibility of flaking.
- must have a pull-off strength of > 1.5 MPa, certified in accordance with standard ASTM D 4541.
- must have a compressive strength of > 25 N/mm², pursuant to standard UNI EN 13892-2.
- any unevenness must be removed with a grinder featuring a dust extractor and rotating diamond disc.
- allow fresh concrete screed to cure for the length of time indicated on the product's technical sheet, based on its properties and on the thickness applied, always checking the moisture level.
- screed laid in the presence of floor heating and cooling systems must be dried and cured, and must have passed all the required tests. The VALPAINT I-BETON PLUS cycle must be applied with the heating off, in compliance with the environmental conditions specified in the previous paragraph.



SCREED

PLASTERBOARD

- with this type of surface, the product can only be applied vertically.
- it is important that the plasterboard should be of the highest quality, new or almost new.
- any loose plaster must be removed.
- the plastering between one sheet and the next must be checked and redone if necessary.
- moreover, all traces of dust must be removed from the surface before proceeding with application of the VALPAINT I-BETON PLUS cycle.



PLASTERBOARD

NON-ABSORBENT SURFACES:

CERAMIC, GRÈS PORCELAIN OR MOSAIC

- the surface to be decorated must be roughened and leveled (with grinder), free from dust, wax, grease, silicone, soap, and any other substances that may prevent adherence.
- pay attention to hard-to-reach areas and corners.
- must have a pull-off strength of $> 1.5 \text{ MPa}$, certified in accordance with standard ASTM D 4541.
- must have a compressive strength of $> 25 \text{ N/mm}^2$, pursuant to standard UNI EN 13892-2.



CERAMIC, GRÈS PORCELAIN OR MOSAIC

OLD EPOXY OR POLYURETHANE COATINGS

- remove any loose parts of the coating, fill in the missing parts with STUCCO SB30 + CT90, and sand with a random orbital sander with dust extraction using 80/120 sandpaper.
- the surfaces to be decorated must be roughened and free from dust, wax, grease, silicone, soap, and any other substances that may prevent adherence. If they are not, wash, rinse and dry the surface thoroughly.
- pay attention to hard-to-reach areas and corners.
- must have a pull-off strength of $> 1.5 \text{ MPa}$, certified in accordance with standard ASTM D 4541.
- must have a compressive strength of $> 25 \text{ N/mm}^2$, pursuant to standard UNI EN 13892-2.
- any joints, if visible, must be cleaned and left as such in the new coating.



OLD EPOXY OR POLYURETHANE COATINGS

PREPARATION OF THE SUPPORT SURFACE

Surfaces must be free from dust, wax, grease, silicone, soap, older layers of paint, and anything else that may prevent adherence. VALPAINT I-BETON PLUS may only be applied to suitably solid support surfaces which have been cleaned, washed and degreased as needed with suitable products (acidic in nature), then thoroughly rinsed and dried (for example, with an industrial heater). All of this will allow the products of the VALPAINT I-BETON PLUS decorative system to adhere perfectly, preventing the potential for flaking as a result of humidity.

Make sure not to create conditions under which puddles of water will form on the surfaces being decorated, by correcting the gradient of the surface if it is not conducive to water drainage. In the event of missing tiles, damaged corners or any holes, repair the site with bi-component STUCCO SB30. Bi-component STUCCO SB30 can be used for minor repairs, applying several layers of product in order to reach the desired thickness. Wait 18-24 hours at 20°C in between applications.

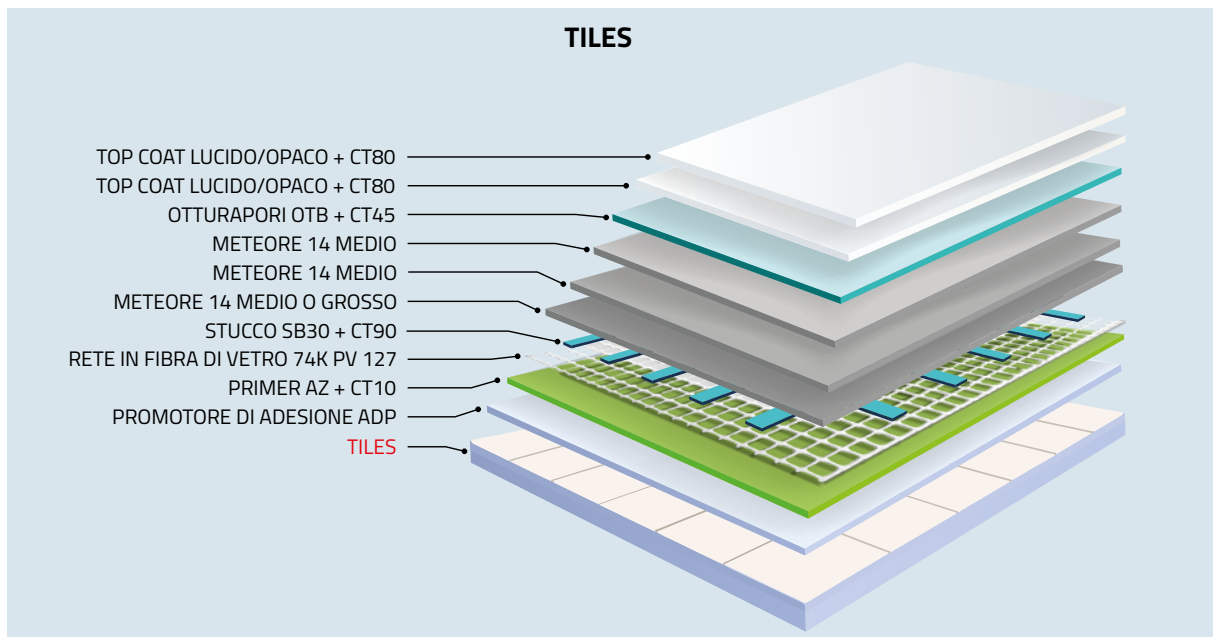
Any construction, insulation or contraction joints on the surface to be decorated, on the other hand, must be left free to allow for any deformations; therefore, these should not be filled in or linked together for any reason. If any joints in the surface have been filled with dust or closed as a result of previous treatments, they should be reopened using suitable tools.

ATTENTION:

If rising damp is greater than 3% when measured with suitable tools, like the BM40 moisture measuring device for materials, we do not recommend applying VALPAINT I-BETON PLUS.



a) Tiles:



Grind and level uneven ceramic **1** or grès porcelain tiles with diamond discs to roughen the glaze. Wash **2** and dry **3** well as described above. Next, apply the PROMOTORE DI ADESIONE ADP by spraying it all over the surface. **4**

Afterwards, wipe with a cloth that has been soaked in the same product, PROMOTORE DI ADESIONE ADP, while both the cloth and the surface are wet, to encourage greater penetration. **5 6**



1 Grind and level uneven ceramic



2 Wash



3 Dry



4 Spraying it all over the surface the PROMOTORE



5 Cloth soaked of PROMOTORE



6 Wipe with a cloth that has been soaked of PROMOTORE

Wait for 30 minutes at 20°C before applying a coat of PRIMER AZ + CT10. Do not wait for any longer than 2 hours at 20°C following the application of PROMOTORE DI ADESIONE ADP, so as not to lose its adhesive effect on PRIMER AZ + CT10. 7 The PRIMER AZ should be applied with a PV 95 medium-pile wool roller. While the PRIMER AZ is still wet, position the 74K PV 127 Fibre-Glass Mesh, placing the edges close together without overlapping. 8



7 Apply the PRIMER AZ + CT 10



8 Position the MESH without overlapping

Take the same PV 95 roller, free from product, and pass it over the mesh to make it adhere firmly to the surface, without using any more PRIMER AZ. 9

After 24 hours at 20°C, fill the grout lines and any holes in the surface using bi-component STUCCO SB30, applying it straight onto the mesh and using a spatula, where necessary, to slip it beneath the mesh. 10 Leave the surface perfectly smooth and level, with no residues, lumps or lines, to avoid the need for sanding. Wait another 24 hours at 20°C before applying METEORE 14.

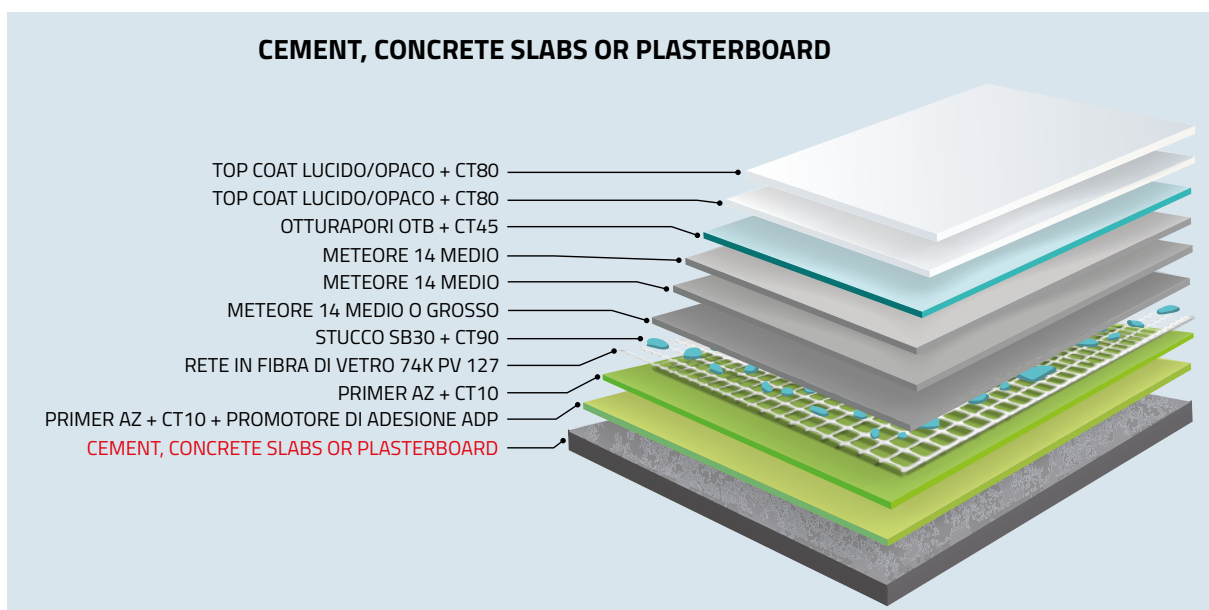


9 With roller pass it over the mesh to make it adhere



10 Fill the grout lines and any holes in the surface

b) Cement and Concrete Slabs



When applying to cement and concrete surfaces, it is essential that these have a pull-off strength of > 1.5 MPa certified in accordance with standard ASTM D4541, and a compressive strength of > 25 N/mm² pursuant to standard EN 13892-2



If there are no conditions to know the level of adhesion by direct traction of the support, check its state of compactness through a qualitative scratch resistance test as described on page 3.

Apply a coat of PRIMER AZ + CT10, diluted with 30% PROMOTORE DI ADESIONE ADP, using a PV 95 medium-pile wool roller. **1**

After 24 hours at 20°C and a relative humidity of 65%, apply a second coat of PRIMER AZ + CT10, this time not diluted, again with the PV 95 roller. **2**



While the PRIMER AZ is still wet, position the 74K PV 127 Fibre-Glass Mesh, placing the edges close together without overlapping. **3** Take the same PV 95 roller, free from product, and pass it over the mesh to make it adhere firmly to the surface, without using any more

PRIMER AZ. 4 After 24 hours at 20°C, fill any holes in the surface using bi-component STUCCO SB30, applying it straight onto the mesh and using a spatula, where necessary, to slip it beneath the mesh. Leave the surface perfectly smooth and level, with no residues, lumps or lines, to avoid the need for sanding. Wait another 24 hours at 20°C before applying METEORE 14.



3 Position the MESH without overlapping



4 Whit roller pass it over the mesh to make it adhere

c) Plasterboard:

it is important that the plasterboard should be of the highest quality, new or almost new. Apply a coat of PRIMER AZ + CT10, diluted with 30% PROMOTORE DI ADESIONE ADP, using a PV 95 medium-pile wool roller. 1

After 24 hours at 20°C and a relative humidity of 65%, apply a second coat of PRIMER AZ + CT10, this time not diluted, again with the PV 95 roller. 2



1 1° coat of PRIMER AZ+CT10 diluted with PROMOTORE



2 2° coat of PRIMER AZ+CT10 not diluted with PROMOTORE

While the PRIMER AZ is still wet, position the 74K PV 127 Fibre-Glass Mesh, placing the edges close together without overlapping. 3

Take the same PV 95 roller, free from product, and pass it over the mesh to make it adhere firmly to the surface, without using any more PRIMER AZ. 4 After 24 hours at 20°C, fill any holes in the surface using bi-component STUCCO SB30, applying it straight onto the mesh and using a spatula, where necessary, to slip it beneath the mesh. Leave the surface perfectly smooth and level, with no residues, lumps or lines, to avoid the need for sanding. Wait another 24 hours at 20°C before applying METEORE 14.



③ Position the MESH without overlapping



④ With roller pass it over the mesh to make it adhere

N.B.: The bi-component PRIMER AZ must be mixed thoroughly with the CT10 using a wooden or plastic stick or spatula and must be applied within 20-25 minutes. If, on the other hand, it is diluted with 30% PROMOTORE DI ADESIONE ADP, the correct dilution ratios must be observed.

TREATING SHOWER TRAYS AND CRITICAL POINTS

Ceramic shower trays cannot be decorated with the VALPAINT I-BETON PLUS system. We recommend applying SIGILLANTE SG15 to all the hydraulic and tap fittings. ① Wait 2 hours at 20°C after applying the SIGILLANTE SG15 before proceeding with METEORE 14.



① Applying SIGILLANTE SG15



SIGILLANTE SG 15

MICRO-CEMENT EFFECT

SKIM-COATING WITH METEORE 14: Using a PV 43 stainless steel trowel, apply a skim coat of METEORE 14 MEDIO, creating a layer sufficient to cover the mesh and leave the support surface level. 1 Next, spray the entire treated area with water using the PV 106 sprayer, 2 then finish it straight away with spatula strokes in all directions so as to achieve a surface which is as smooth and compact as possible, 3 to avoid the need for sanding.



1 Apply a skim coat of METEORE 14 MEDIO



2 Spray the entire treated area



3 Finish with spatula strokes in all directions

N.B.: For plastered walls and floors in cement screed or raw concrete, or in the presence of an uneven ceramic surface, we recommend using METEORE 14 GROSSO instead of METEORE 14 MEDIO for the skim-coating, to make it easier to achieve a level result. This will provide a more structured support surface with even greater compressive strength. METEORE 14 GROSSO should also be thoroughly smoothed like METEORE 14 MEDIO, spraying water with the PV 106 sprayer in order to avoid the need for sanding and to prevent the formation of lumps, irregular trowel marks and unevenness.

FINISHING WITH METEORE 14: After 16 hours at 20°C, apply a first coat of METEORE 14 MEDIO coloured as a finish, ① again using the PV 43 stainless steel trowel, before spraying the entire decorated surface with water using the PV 106 sprayer. ② Then, finish it straight away with spatula strokes in all directions ③ so as to achieve a finish which is as smooth and compact as possible, to avoid the need for sanding. Wait another 16 hours at 20°C before applying a second coat of coloured METEORE 14 MEDIO, ④ using the same technique as for the second. ⑤ ⑥



① Apply a first coat of METEORE 14 MEDIO



② Spray the entire treated area



③ Finish with spatula strokes in all directions



④ Applying a second coat of METEORE 14



⑤ Spray the entire treated area



⑥ Finish with spatula strokes in all directions

N.B.: Between coats of METEORE 14, check that the surface is perfectly smooth with no lumps, lines or unevenness. If necessary, sand with a suitable tool, choosing sandpaper with an appropriate grit size for the conditions of the surface.

PROTECTION: After 16 hours at 20°C, clean the surface of any lumps and dust ① before applying a thin layer of OTTURAPORI OTB + CT45 ② using a PV 31 mohair wool roller. After 24 hours at 20°C, sand with 220/300 grit sandpaper ③ before using the PV 31 mohair wool roller again to apply two coats of TOP COAT AR60 Lucido (glossy) or TOP COAT AR70 Opaco (matt). ④ ⑤

Both TOP COATS are bi-component and must be catalysed with CT80 and thoroughly mixed. They must be applied within 1 hour of mixing, during which they should be at 20°C. Wait for 6-8 hours at 20°C between one coat and the next, but do not exceed 24 hours at 20°C as then the surface would need to be sanded to ensure adequate adherence.



① Clean the surface of any lumps and dust



② To apply a thin layer of OTTURAPORI OTB + CT45



③ Sand with 220/300 grit sandpaper



④ To apply 1° coat of TOP COAT LUCIDO o OPACO



● apply 2° coat of TOP COAT LUCIDO o OPACO

After applying, in the areas most liable to have frequent contact with water (e.g. inside shower cabinets and around tap fittings), seal the outlet valves, mixer faucets and taps as well as the joints between walls and floors and any ceramic skirting, etc., with a clear silicone sealant.



PRODUCTS

PROMOTORE DI ADESIONE ADP



UNIT	COPERTURA PER UNITÀ	CONSUMPTION PER SQM
LT. 0,250	3 - 3,5 sqm ON TILES (1 COAT)	0,07 - 0,08 LT/sqm ON TILES
LT. 1	12,5 - 14 sqm ON TILES (1 COAT)	

KIT PRIMER AZ + CT10



UNIT	COVERAGE PER UNIT ON TILES	CONSUMPTION PER SQM ON TILES
0,35 Kg. KIT	4 - 4,5 sqm one coat, non-diluted	0,08 - 0,09 Kg/sqm
0,9 Kg. KIT	10 - 11,5 sqm one coat, non-diluted	
2,7 Kg. KIT	31 - 33,5 sqm one coat, non-diluted	

UNIT	COVERAGE PER UNIT ON CEMENT AND CONCRETE SCREED OR PLASTERBOARD	CONSUMPTION PER SQM ON PLASTERBOARD
0,35 Kg. KIT	2,5 - 4 smq first coat, diluted (adding 100 g, equal to LT. 0,105 of PROMOTORE DI ADSIONE ADP) 4 - 5 smq second coat, non-diluted	0,18 Kg/smq
0,9 Kg. KIT	7 - 11 smq first coat, diluted (adding 270 g, equal to LT. 0,285 of PROMOTORE DI ADSIONE ADP) 11 - 12 smq second coat, non-diluted	
2,7 Kg. KIT	23 - 31 smq first coat, diluted (adding 800 g, equal to LT. 0.840, of PROMOTORE DI ADSIONE ADP) 34 - 36 mq second coat, non-diluted	

STUCCO SB30 + CT90



UNIT	COVERAGE PER UNIT	CONSUMPTION PER SQM
0,4 Kg. KIT	to consumption	to consumption

SIGILLANTE SG15



UNIT	COVERAGE PER UNIT	CONSUMPTION PER SQM
LT. 0,125	to consumption	to consumption

METEORE 14 GROSSO



UNIT	COVERAGE PER UNIT	CONSUMPTION PER SQM
LT. 1	1,4 - 1,6 smq (over the mesh) one coat on a smooth surface	0,65 - 0,75 LT/smq
LT. 4	5,6 - 6,4 smq (over the mesh) one coat on a smooth surface	
LT. 12	16,8 - 18,4 smq (over the mesh) one coat on a smooth surface	

METEORE 14 MEDIO



UNIT	COVERAGE PER UNIT	CONSUMPTION PER SQM
LT. 1	SKIM-COATING: 1,2 - 1,5 smq (over the mesh) one coat on a smooth surface (first coat) FINISHING: 2,0 - 2,4 smq one coat (first coat) 2,4 - 2,6 smq one coat (second coat)	1,5 - 2 LT/smq
LT. 4	SKIM-COATING: 4,8 - 6 smq (over the mesh) one coat on a smooth surface (first coat) FINISHING: 8 - 9,6 smq one coat (first coat) 9,6 - 10,4 smq one coat (second coat)	
LT. 12	SKIM-COATING: 14,4 - 18 smq (over the mesh) one coat on a smooth surface (first coat) FINISHING: 24 - 28,8 smq one coat (first coat) 2,4 - 2,6 smq one coat (second coat)	

KIT OTTURAPORI OTB + CT45



UNIT	COVERAGE PER UNIT	CONSUMPTION PER SQM
0,4 Kg. KIT	4,0 - 4,4 smq one coat	0,09 - 0,11 Kg/smq
1 Kg. KIT	10,0 - 11,0 smq one coat	

KIT TOP COAT AR60 LUCIDO + CT80



UNIT	COVERAGE PER UNIT	CONSUMPTION PER SQM
0,4 Kg. KIT	5 - 8 smq two coat	0,05 - 0,07 Kg/smq
1 Kg. KIT	12 - 20 smq two coats	
3,3 Kg. KIT	40 - 66 smq two coats	

KIT TOP COAT AR70 OPACO + CT80



UNIT	COVERAGE PER UNIT	CONSUMPTION PER SQM
0,4 Kg. KIT	5 - 8 smq due mani	0,05 - 0,07 Kg/smq
Kg. 1 Kg. KIT	12 - 20 smq two coats	
3,3 Kg. KIT	40 - 66 smq two coats	

APPLICATION TO CORNERS AND EDGES

To help apply the VALPAINT I-BETON PLUS cycle correctly in tight corners and on pointed edges, you can use the specific PV 123 **H** contoured Stainless Steel Trowel for internal angles and the PV 124 **I** contoured Stainless Steel Trowel for external angles.



H FRATTONE INOX PV 123



I FRATTONE INOX PV 124

FORMATS AND COVERAGE:

PRODUCT	FORMAT	COVERAGE
PROMOTORE DI ADESIONE ADP	LT. 0,25 - 1 (Kg. 0,24 - 0,9)	12,5 - 14 smq/LT with one coat on tiles, horizontal or vertical
PRIMER AZ + CT10	0,35 Kg. KIT	ON TILES: 4 - 4,5 smq with one coat, non-diluted ON CEMENT AND CONCRETE SLABS OR PLASTERBOARD: 2,5 - 4 smq first coat, diluted (adding 100g, equal to 0.105 L, of PROMOTORE DI ADESIONE ADP) 4 - 5 smq second coat, non-diluted
	0,9 Kg. KIT	ON TILES: 10 - 11,5 smq with one coat, non-diluted ON CEMENT AND CONCRETE SLABS OR PLASTERBOARD: 7 - 11 smq first coat, diluted (adding 270g, equal to 0.285 L, of PROMOTORE DI ADESIONE ADP) 11 - 12 smq second coat, non-diluted
	2,7 Kg. KIT	ON TILES: 31 - 33,5 smq with one coat, non-diluted ON CEMENT AND CONCRETE SLABS OR PLASTERBOARD: 23 - 31 smq first coat, diluted (adding 800g, equal to 0.840 L, of PROMOTORE DI ADESIONE ADP) 34 - 36 smq second coat, non-diluted
RETE IN FIBRA DI VETRO 74K PV 127	///	1 m/smq
STUCCO SB30 + CT90	0,4 Kg. KIT	///
SIGILLANTE SG15	LT. 0,125	///
METEORE 14 GROSSO	LT. 1 - 4 - 12	1,4 - 1,6 smq/LT (over the mesh), one coat on a smooth surface
METEORE 14 MEDIO	LT. 1 - 4 - 12	SKIM-COATING: 1,2 - 1,5 smq/LT (over the mesh) with one coat on a smooth surface (first coat) FINISHING: 2,0 - 2,4 smq/LT with one coat (first coat) 2,4 - 2,6 smq/LT with one coat (second coat)
OTTURAPORI OTB + CT45	0,4 Kg. KIT	4,0 - 4,4 smq with one coat
	1 Kg. KIT	10,0 - 11,0 smq with one coat
TOP COAT AR60 LUCIDO + CT80	0,4 Kg. KIT	5 - 8 smq with two coats
	1 Kg. KIT	12 - 20 smq with two coats
TOP COAT AR70 OPACO + CT80	3,3 Kg. KIT	40 - 66 smq with two coats

CONSUMPTION PER SQM

APPLICATION ON TILES

PRODUCT DESCRIPTION	CONSUMPTION PER SQM	PRODUCT NEEDED	UNITS AVAILABLE	UNITS TO ORDER
PROMOTORE DI ADESIONE ADP	0,07 / 0,08 LT/smq		0,25 LT - 1 LT	
PRIMER AZ + CT10	0,08 / 0,09 Kg/smq		0,35 Kg - 0,9 Kg - 2,7 Kg	
RETE IN FIBRA DI VETRO 74K PV 127	1 m/smq		///	
STUCCO SB30 + CT90	to consumption		0,4 Kg	
METEORE 14 GROSSO	0,65 / 0,75 LT/smq		1 LT - 4 LT - 12 LT	
METEORE 14 MEDIO 2 Coats	1,5 / 2 LT/smq		1 LT - 4 LT - 12 LT	
OTTURAPORI OTB + CT45	0,09 / 0,11 Kg/smq		0,4 Kg - 1 Kg	
TOP COAT + CT80 2 Coats*	0,05 / 0,07 Kg/smq		0,4 Kg - 1 Kg - 3,3 Kg	

NOTES:

This document should be considered a useful guide to determining the amount of material needed to produce around 1 sqm. The given consumption amounts are indicative and may vary based on conditions on the worksite, the handiwork of the applier, and the effect the applier intends to create.
(*) = this consumption amount is valid for both the Opaca (matt) and Lucida (glossy) versions.

APPLICATION ON CEMENT AND CONCRETE SCREED OR PLASTERBOARD

PRODUCT DESCRIPTION	CONSUMPTION PER SQM	PRODUCT NEEDED	UNITS AVAILABLE	UNITS TO ORDER
PROMOTORE DI ADESIONE ADP*	0,03 LT/smq		0,25 LT - 1 LT	
PRIMER AZ + CT10 I° mano = 0,1 Kg/mq (**) II° mano = 0,08 Kg/mq	0,18 Kg/smq		0,35 Kg - 0,9 Kg - 2,7 Kg	
RETE IN FIBRA DI VETRO 74K PV 127	1 m/smq		///	
STUCCO SB30 + CT90	to consumption		0,4 Kg	
METEORE 14 GROSSO	0,65 / 0,75 LT/smq		1 LT - 4 LT - 12 LT	
METEORE 14 MEDIO 2 Coats	1,5 / 2 LT/smq		1 LT - 4 LT - 12 LT	
OTTURAPORI OTB + CT45	0,09 / 0,11 Kg/smq		0,4 Kg - 1 Kg	
TOP COAT + CT80 2 Coats*	0,05 / 0,07 Kg/smq		0,4 Kg - 1 Kg - 3,3 Kg	

NOTES:

This document should be considered a useful guide to determining the amount of material needed to produce around 1 sqm. The given consumption amounts are indicative and may vary based on conditions on the worksite, the handiwork of the applier, and the effect the applier intends to create.

(*) = the PROMOTORE DI ADESIONE ADP is to be added in the first coat, in the proportion of 30% of the PRIMER AZ + CT10

(**) = consumption of PRIMER AZ + CT10 + PROMOTORE DI ADESIONE ADP in the first coat could be heavily affected by the porosity of the surface. The amount given is an indicative value. It is best to conduct a test on a small patch of the surface first before placing the order.

(***) = this consumption amount is valid for both the Opaca (matt) and Lucida (glossy) versions.

OTHER TECHNICAL DATA AND WARNINGS

Application temperature: between +10°C and +30°C.

Avoid applying PRIMER AZ + CT10 and OTTURAPORI OTB + CT45 when the temperature of the product, the room and the support surface is lower than +15°C or in the presence of humidity (rainy or foggy days, with air humidity levels above 65%).

Drying times for METEORE 14: surface-dry after 6 hours at 20°C and relative humidity of less than 65%. It can be walked on, with care, after 12 hours at 20°C. It can be painted over after 16 hours at 20°C.

Drying times for TOP COAT: dust-free after 20 minutes at 20°C. Surface-dry after around 4 hours at 20°C. It can be painted over after 8-10 hours at 20°C, while it is ready for public access after 72 hours, again at 20°C. Seats, tables and all other items of furniture can be placed on it after 7 days, at a constant 20°C, with appropriate care and without scraping them against the decorated surface (we recommend using felt pads on all parts that touch the floor).

Drying times for the VALPAINT I-BETON PLUS system: hardens after 7 days at 20°C and reaches optimal resistance to static loads after 28 days.

Resistance: after complete hardening, a film forms that is resistant to water, vapour and abrasion. To maintain your decorated surface in top conditions, consider the resistance of surfaces covered with VALPAINT I-BETON PLUS comparable to that of parquet flooring. We recommend treating it with the same care, in order to extend its lifespan as much as possible.

Equipment cleaning: water or ethyl alcohol.

Storage: in a tightly closed tin, even after use, at temperatures between +10°C and +30°C.

SPECIFIC SAFETY INSTRUCTIONS:

Avoid direct contact with the skin and protect your eyes and face. In the event of contact, rinse immediately with plenty of water and consult a doctor. Equipment must not be washed in waterways, drains, etc.

WARNINGS FOR THE USER:

IMPORTANT: It is essential to respect the drying times in order to ensure the successful outcome of working with the VALPAINT I-BETON PLUS decorative system. The figures given in this catalogue, as well as in the relevant technical sheets, refer to standard, constant environmental conditions (Temperature of 20°C and Relative Humidity of 65%). Any other conditions may alter drying times, possibly significantly. Between the application of one coat and the next, always check that the humidity of the support surface is under 3% by measuring it with the BM40 moisture measuring device for materials. To make sure that humidity does not build up inside the room while the product is drying, we recommend using a dehumidifier suitable for the total volume of the space, potentially with a drainage pipe to convey the water into a specific container or outlet if the machine's tank becomes full. Spraying excessive quantities of water to smooth METEORE 14 prolongs drying times. If you have any doubts, always check that the humidity is below 3%.

N.B.: The information contained herein, the fruit of our experience, is correct and accurate. However, as usage conditions are not under our control, we shall accept no liability for the recommendations and advice provided. We recommend testing a full application cycle on a small patch of the surface to check the outcome in advance. Subsequently, while proceeding to decorate, monitor the effects achieved constantly: the VALPAINT I-BETON PLUS decorative system consists of special resins that react differently depending on the

application method, meaning that every project in which it is used will have its own unique character.

The shades can vary from those shown in the catalogue by 15% to 20%, and may also vary between different batches. When working with different batches, finish work upon reaching a corner and then mix the remaining product with the new batch in a large container before proceeding.

N.B.: Before applying the product, carefully watch the video tutorial for the specific effect you wish to achieve.

TOOLS AND EQUIPMENT NECESSARY



BM40 MOISTURE MEASURING DEVICE



BC06 AMBIENT THERMOHYGROMETER



DEEP MOISTURE MEASURING DEVICE



DEHUMIDIFIER



GRINDER



74K PV 127 FIBRE-GLASS MESH



PV 95 ROLLER (150 mm)



PV 43 STAINLESS STEEL TROWEL (200 x 80 mm)



PV 31 MOHAIR WOOL ROLLER



PV 106 SPRAYER



PV 123 STAINLESS STEEL TROWEL



PV 124 STAINLESS STEEL TROWEL

CHEMICAL RESISTANCE OF TOP COAT IN ACCORDANCE WITH THE ASTM D1308-02 STANDARD

CHEMICAL SUBSTANCE	RESULT
Vinegar	Resistant
Muriatic acid	Resistant
Sulphuric acid H ₂ SO ₄ 5%	Resistant
Water at 100 °C	Resistant
Alkalis (NaOH)	Resistant
Ethyl alcohol	Resistant
Ammonia	Resistant
Shower gel	Resistant
Beer	Resistant
Coffee	Resistant
Coca-Cola	Resistant
Toothpaste	Resistant
Bathroom descaler	Resistant
Tomato sauce	Resistant
Mayonnaise	Resistant
Oil	Resistant
Boiling oil	Resistant
Fruit juice	Resistant
Lemon juice	Resistant
Urine	Resistant
Bleach	Resistant
Red wine	Resistant



FOCUS ON METEORE 14

METEORE 14 is a natural water-based textured coating with micro-cement effect

- Versatile
- Easy to apply (ready to use)
- Certified
- Possesses high adhesion power on ceramic and cement
- Resistant to abrasion
- Water-resistant
- Resistant to impacts
- Free of IPA, APEO, ammonia, formaldehyde
- Low VOC content

The VALPAINT I-BETON PLUS system can be made in most cases with a single product: the METEORE 14 MEDIO.

Thanks to the particle size (0.4mm) that perfectly adapts to the 74K PV 127 FIBREGLASS MESH and the excellent adhesion on many materials, it is possible to obtain a smooth and homogeneous surface with 3 coats of product.

For a good result of the work, the product must be smoothed immediately after each application using water spray.

On plastered walls and cementitious screed or rough concrete floors or in the presence of uneven ceramics, we recommend smoothing with METEORE 14 GROSSO instead of METEORE 14 MEDIO to facilitate levelling. The product must always be applied together with the 74K PV 127 Glass Fiber Mesh, but a higher thickness will be obtained (grain size 0.6mm).

METEORE 14 GROSSO must also be smoothed well immediately after application with the help of nebulised water, in order to avoid sanding and the formation of lumps, irregular spatula strokes or bumps.

FOCUS ON STUCCO SB30 + CT90

Bi-component epoxy filler for grouting or repairing peeled parts / holes on cement.

- Excellent adhesion on ceramic, cement and many other clean materials free of grease and any substances that can cause the product to detach
- Fluid ceramic: completely impermeable to water and humidity, isolates the substrate making the surface even and continuous
- Withstands mould build-up, ideal for damp environments
- Does not shrink
- FREE of APEO, IPA, ammonia and formaldehyde

FOCUS ON SIGILLANTE SG15

Odourless multi-purpose sealant featuring excellent adhesion and elasticity. Dries rapidly.

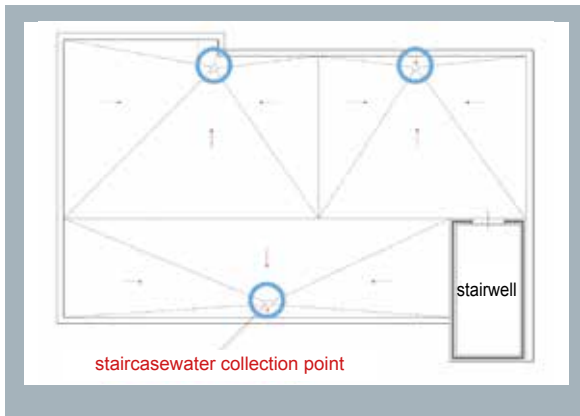
- Ultra-elastic (stretches up to 350%)
- Withstands mould build-up, ideal for damp environments
- Moisture-curing
- Easy to work, adapts to the most difficult areas
- Excellent adhesion without primer on all conventional materials
- Can be coated over after only 2 hours
- Ecological: VOC-free, does not contain solvents nor isocyanates
- Class A+ pursuant to the regulations on indoor air quality



SLOPE AND JOINT CONTROL

Prevent water puddles from forming on the surface to be decorated with VALPAINT I-BETON PLUS, by adjusting the slopes before starting the job, if they are not suitable for draining water.

Moreover, any construction joints, insulation joints or contraction joints on the surface to be decorated should be left free to allow for possible deformation. These, therefore, should not be filled or linked together for any reason. If any joints in the surface have been filled with dust or previous treatments, these should be reopened using suitable tools.



USING THE REINFORCEMENT MESH

The 74K PV 127 Fibre-Glass Mesh **A** favours an even load distribution and creates crack-resistant, strong and durable surfaces.

The 74K PV 127 Fibre-Glass Mesh should be positioned on top of the wet PRIMER AZ, placing the edges close together without overlapping. **1** Take the same PV 95 roller, free from product, and pass it over the mesh to make it adhere firmly to the surface, without using any more PRIMER AZ.



1 Position the MESH without overlapping



A 74K PV 127 FIBRE-GLASS MESH

TEMPERATURE AND HUMIDITY MEASUREMENT INSTRUMENTS



A. ENVIRONMENTAL THERMOHYGROMETER

Used to measure environmental conditions, i.e. air TEMPERATURE and HUMIDITY.

HOW TO USE: When the instrument is switched on using the on/off switch, it immediately reads the temperature and humidity in the air. To lock the reading, press the side button marked "MAX MIN".

If you need to view the minimum and maximum values measured since the instrument was switched on, press the "MAX MIN" button once again and the values will be displayed on the screen.

We recommend removing the instrument from its case and leaving it in the room to be measured for at least

2-3 minutes before switching it on. For an optimal reading, we recommend waiting at least one minute after switching on the instrument so that the reading will be more accurate.

The instrument's range is as follows:

- from 0 to 100% for relative humidity;
- from -20 to +60°C for temperature.

IMPORTANT NOTES: Before applying VALPAINT I-BETON PLUS, it is advisable to check the environmental conditions as well as the conditions of the support. In other words, make sure that the ambient temperature is not too low or the level of humidity too high. These values might affect both the application, making it more difficult or even problematic, and the catalysis and subsequent drying of the product.

Before applying the VALPAINT I-BETON PLUS cycle, the temperature should be between +5°C and +30°C. For n particular for the PRIMER AZ +CT 10 avoid application at temperatures lower than +15°C and in the presence of humidity (on rainy or foggy days, with an air humidity level higher than 75%). Application with temperatures above +30°C should also be avoided.

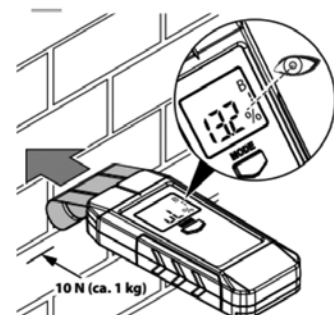
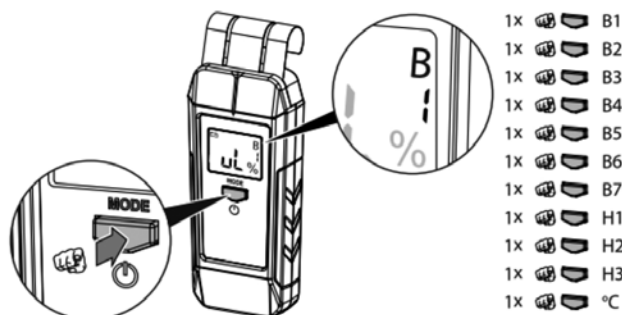
B. HUMIDITY GAUGE FOR MATERIALS

Used to measure the level of HUMIDITY in the support to be treated (cement, wood...) before proceeding with the VALPAINT I-BETON PLUS cycle.

The instrument is easy to use and non-invasive in that it doesn't damage the surface.

It is equipped with capacitive sensors made from metal (electrodes), which measure the humidity level when placed in contact with the material. For increased accuracy, you can select the type of material to be gauged, choosing from 10 options listed on the back of the instrument.

HOW TO USE: Switch on the gauge by holding down the on/off button for one second. Press the on/off button once again to select the type of material, represented by initials on the screen.



At this point, the sensors can be placed against the material for reading, applying light pressure. View the reading on the screen: "uL" means that the level of humidity is higher than the maximum that can be gauged by the device (20% or 50% based on the material). The gauge can also measure the ambient temperature, between -10°C and +55°C. Switch the instrument off after use by holding down the on/off button for 2 seconds.

PERFORMANCES AND TESTS CONDUCTED

CHARACTERISTIC	PRODUCT	STANDARD	VALUE	LOGO
IDONEITY HACCP	VALPAINT I-BETON PLUS	UNI 11021	INDICATED FOR ENVIROMENTS WHERE FOODS IS PRESENT	UNI 11021  HACCP
ADHERENCE FOR DIRECT TRACTION ON CERAMIC TILE	PRIMER AZ + CT 10 METEORE 14 GROSSO METEORE 14 MEDIO	UNI EN 1542	>10,4 MPa >1,68 Mpa >2,22 Mpa	UNI EN 1542  ADHESION
ADHERENCE FOR DIRECT TRACTION ON CEMENT	PRIMER AZ + CT 10 METEORE 14 GROSSO METEORE 14 MEDIO	UNI EN 1542	>9,4 MPa >1,68 Mpa >1,78 Mpa	UNI EN 1542  ADHESION
SCRATCH RESISTANCE (PENCIL HARDNESS)	TOP COAT AR60 LUCIDO + CT80 TOP COAT AR70 OPACO + CT80	ASTM D3363-05	H - HB	ASTM D3363-05  HARDNESS
WASHING RESISTANCE	TOP COAT AR60 LUCIDO + CT80 TOP COAT AR70 OPACO + CT80	UNI 10560	>20.000 cicli >20.000 cicli	UNI 10560  WASHABILITY
IMPACT RESISTANCE (BALL DROP TEST)	VALPAINT I-BETON PLUS	ISO 6272-2	PASSA 2 Kg da h= 1,00m	ISO 6272-2  IMPACT
SHORE HARDNESS	PRIMER AZ + CT 10 METEORE 14 MEDIO STUCCO SB30 + CT90	ASTM D2240-15	82 Shore D 70 Shore D 80 Shore D	ASTM D2240-15  SHORE D
PERMEABILITY TO WATER VAPOR	PRIMER AZ + CT 10	UNI EN ISO 7783	Sd ≥ 1,9 m	UNI EN ISO 7783  VAPOR BARRIER
RESISTANCE TO DIRECT AND REVERSE HYDROSTATIC PRESSURE	VALPAINT I-BETON PLUS	DIN 51130	18° CLASSE R10	DIN 51130 ASTM C1028-07  FRICTION
GLOSS MEASUREMENT	TOP COAT AR60 LUCIDO + CT80 TOP COAT AR70 OPACO + CT80	UNI EN ISO 2813	max 70 – 75 GU on smooth surface (HIGH GLOSS) max 5 GU on smooth surface (LOW GLOSS)	
CHEMICAL RESISTANCE	TOP COAT AR60 LUCIDO + CT80 TOP COAT AR70 OPACO + CT80	ASTM D 1308-2	RESISTANCE TO COMMON REAGENT	

DETAIL OF THE TESTS AND PERFORMANCE OBTAINED

IDONEITA' HACCP UNI 11021

HACCP (Hazard Analysis and Critical Control Points) is a self-control plan that entails, in rooms where foodstuffs are prepared, processed or transformed (e.g. in the retail sector), certain characteristics in terms of RESISTANCE, WASHABILITY AND HEALTHINESS.

VALPAINT I-BETON PLUS was formulated for being suited to application in these environments and, for this reason, had to pass several tests for conforming to the hygiene and safety requirements envisaged in the HACCP.

Listed below are the tests to which VALPAINT I-BETON PLUS was subjected in order to obtain the HACCP certificate.

1. ODOUR RELEASE (HACCP)

The odour release was assessed 24 hours after the product's application by placing a specimen of VALPAINT I-BETON PLUS into a control room together with a few specimens of cheese. After a standard time, the cheese is tasted and a rating is assigned.

ODOUR RELEASE	VALPAINT I-BETON PLUS	UNI 11021:2002 Appendix A	0,8
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2. DIRT PICK-UP (HACCP)

The dirt pick-up value is used to determine the tendency of VALPAINT I-BETON PLUS to absorb and trap dust and other impurities that could form on the surface, dirtying it.

Classification in accordance with UNI 10795:1999

VERY LOW dirt pick-up: $\Delta L \leq 3$

LOW dirt pick-up: $3 < \Delta L \leq 9$

MEDIUM dirt pick-up: $9 < \Delta L \leq 15$

HIGH dirt pick-up: $\Delta L > 15$

DIRT PICK-UP	VALPAINT I-BETON PLUS	UNI 10792:1999	$\Delta L = 2,2$
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3. RESISTANCE TO WASHING (HACCP)

The resistance to washing requested by the HACCP is at least 5,000 brush strokes, which guarantees that the product stays on the surface after the test conducted with a solution of water and surfactant.

Classification in accordance with UNI 10795:

EXCELLENT resistance to washing: $\geq 5,000$ cycles

Resistance to washing: from 1,000 to 500 cycles

Not resistant to washing: < 1000 cycles

RESISTANCE TO WASHING	VALPAINT I-BETON PLUS	UNI 10560:1999	> 5000
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4. CLEANABILITY TEST (HACCP)

For the cleanability test, a soiling agent is applied to the surface of the specimen and then, immediately afterwards, the resistance to washing is measured in accordance with the UNI 10560 procedure, by first rubbing the brushes directly on the soiling agent (25 cycles) and then washing them.

After the test, the specimen is measured with a spectrophotometer to assess the colour difference ΔE between the soiled zone and the clean zone.

To be deemed suitable for the HACCP, it must obtain a ΔE below 3.

CLEANABILITY TEST	VALPAINT I-BETON PLUS	UNI 11021:2002 Appendix B	$\Delta E = 0,54$
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5. DETERMINATION OF THE FUNGICIDAL POWER (HACCP)

The dirt pick-up value is used to determine the tendency of VALPAINT I-BETON PLUS to absorb and trap dust and other impurities that could form on the surface, dirtying it.

Classification in accordance with UNI 10795:2002

No development: 0

Very weak development: 1

Weak development: 2

Medium development: 3

Strong development: 4

FUNGICIDAL POWER	VALPAINT I-BETON PLUS	UNI 11021:2002	0 (NO DEVELOPMENT)
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6. RESISTANCE TO SPECIFIC WASHING AGENTS (HACCP)

The resistance to liquids test consists in evaluating the tested product's resistance to specific washing agents used in the professional cleaning of surfaces.

VALPAINT I-BETON PLUS is suitable for being washed with CHLORACTIVE ACID DESCALER.

The following effects were evaluated in accordance with the UNI EN ISO 2812-1 standard:

Degree of blistering: Absent

Degree of cracking: Absent

Degree of peeling: Absent

Yellowing: Absent

Opacification: Slight

Fading: Absent

RESISTANCE TO LIQUIDS	VALPAINT I-BETON PLUS	UNI EN ISO 2812-1 method 3	PASSED
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7. RESISTANCE TO THERMAL SHOCKS (HACCP)

The resistance to thermal shocks test is conducted by subjecting the product specimen to 10 freeze cycles (-20°C for 2 hours) and thaw cycles (immersion in water at $+20^{\circ}\text{C}$ for 2 hours).

The following effects are evaluated in accordance with the UNI EN ISO 11021:2000 standard:

Degree of blistering: Absent

Degree of cracking: Absent

VALPAINT I-BETON PLUS is suitable for being used in COLD STORAGE ROOMS.

RESISTANCE TO THERMAL SHOCKS	VALPAINT I-BETON PLUS	UNI 11021:2000 Appendix D	PASSED
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8. RESISTANCE TO HUMIDITY (HACCP)

The humidity resistance test involves the exposure of the product sample applied to an environment saturated with humidity (100%) for 120 hours, at a temperature of 40°C .

The following effects are assessed according to UNI EN ISO 6270-1: 2018:

Degree of blistering: Absent

Degree of cracking: Absent

Degree of peeling: Absent

VALPAINT I-BETON PLUS was suitable for use in environments with average humidity greater than 80%.

RESISTANCE TO HUMIDITY	VALPAINT I-BETON PLUS	UNI EN ISO 6270-1:2018	PASSED
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MEASUREMENT OF BOND STRENGTH BY PULL-OFF EN ISO 1542

The test consists in exerting direct traction on the material to be tested, using steel plugs made to adhere to the product surface. It is used to measure the adhesion force between the application substrate (tiles, concrete, ...) and the VALPAINT I-BETON PLUS coating.

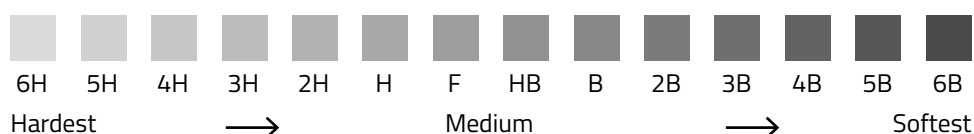
The technical quality of the resinous coatings (UNI 10966) establishes as a minimum resistance value, a cohesion force $\geq 1.5\text{ MPa}$.

BOND STRENGTH ON CERAMIC TILE	PRIMER AZ + CT 10 METEORE 14 GROSSO METEORE 14 MEDIO	UNI EN 1542	>10,4 MPa >1,68 Mpa >2,22 Mpa	UNI EN 1542  ADHESION
BOND STRENGTH ON CEMENT	PRIMER AZ + CT 10 METEORE 14 GROSSO METEORE 14 MEDIO	UNI EN 1542	>9,4 MPa >1,68 Mpa >1,78 Mpa	UNI EN 1542  ADHESION

SCRATCH RESISTANCE (PENCIL HARDNESS) ASTM D3363-05

Scratch resistance is used by the coating industry to determine the hardness of paints and inks. The test is based on a British hardness scale ranging from H (hard pencil) to B (soft pencil).

The test simulates the effect of a blunt instrument that is dragged onto VALPAINT I-BETON PLUS. Depending on the hardness of the coating, the mechanical pressure of this object can leave more or less deep incisions and deformations and invalidate the aesthetic and functional qualities of the flooring



SCRATCH RESISTANCE (PENCIL HARDNESS)	TOP COAT AR60 LUCIDO + CT80 TOP COAT AR70 OPACO + CT80	ASTM D3363-05	H - HB	ASTM D3363-05 HARDNESS
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WASHABILITY UNI 10560

The resistance to washing expresses the ability of the last product film of the VALPAINT I-BETON PLUS system to be washed off the surface, when cleaning the surfaces. The test tool simulates this action with standard brushes and a solution of water and surfactant. To define a "SUPER WASHABLE" surface, the standard requires a minimum number of cycles (brush strokes) of 5000.

WASHABILITY	TOP COAT AR60 LUCIDO + CT80 TOP COAT AR70 OPACO + CT80	UNI 10560	>20.000 cicli >20.000 cicli	UNI 10560 WASHABILITY
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IMPACT RESISTANCE (Ball Drop Test) UNI EN ISO 7765

The impact resistance test simulates the fall of an object from a certain height on the surface paved with VALPAINT I-BETON PLUS. Spherical masses are dropped with constant weight increase, from variable heights starting from 0.6 m up to 1.5 m. The behavior of the tested material is determined visually below: until the material is damaged, the test is positive.

IMPACT RESISTANCE (BALL DROP TEST)	VALPAINT I-BETON PLUS	ISO 6272-2	2 kg da h= 1,00m	ISO 6272-2 IMPACT
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GLOSS MEASURE UNI EN ISO 2813

Gloss is a visual perception of the human eye of how much a given surface reflects light. It is measured in Gloss Unit (GU) on a scale ranging from 0 to 100.

Based on the value read by the instrument, the degree of gloss of the product can be determined:

- HIGH GLOSS with GU > 70
- MEDIO GLOSS with GU between 10 and 70
- LOW GLOSS with GU < 10

GLOSS	TOP COAT AR60 LUCIDO + CT80 TOP COAT AR70 OPACO + CT80	UNI EN ISO 2813	max 70 – 75 GU on smooth surface (HIGH GLOSS) max 5 GU on smooth surface (LOW GLOSS)	
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SHORE D HARDNESS ASTM D2240-15

The Shore D hardness represents the resistance of VALPAINT I-BETON PLUS to permanent deformations. The most used hardness scales are "Shore A" and "Shore D", respectively for materials of lower and higher hardness. A value ranging from 0 to 100 is read from the measuring instrument; the closer the value read approaches one hundred, the harder the material tested.

SHORE D HARDNESS	PRIMER AZ + CT 10 METEORE 14 MEDIO OTTURAPORI OTB + CT 45 STUCCO SB30 + CT90	ASTM D2240-15	82 Shore D 70 Shore D 75 Shore D 80 Shore D	ASTM D2240-15  SHORE D
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WATER VAPOR TRANSMISSION UNI EN ISO 7783

This characteristic expresses the ability of PRIMER AZ + CT 10 to let water vapor pass through it. The higher the Sd value, the more waterproof the product.

The legislation frames the Sd values in three permeability classes:

- Class I (high *) Sd < 0.14 m
- Class II (medium *) Sd from 0.14 to 1.4 m
- Class III (low *) Sd > 1.4 m

This performance can also be expressed with a size that is equally known and used in building materials: the water vapor permeability coefficient μ . The higher this value, the more waterproof the product. A list of typical values of μ in the table opposite.

Sd = 2.06 m corresponds, for a film thickness of 1 mm, to $\mu = 1030.84$ i.e. the Rasante DDS is more waterproof than a standard polyurethane

MATERIAL	μ
Lime and cement plaster	15
Gypsum plaster (smoothing)	6,2
Heavy concrete	80-100
Expanded clay concrete (hollow blocks)	7-10
Solid or perforated brick walls	6-6,08
Polystyrene	10-210
Polyurethane	50-100
Bituminous paper felt.	3640-18280

WATER VAPOR TRANSMISSION PROPERTIES	PRIMER AZ + CT 10	UNI EN ISO 7783	Sd = 1,9 m	UNI EN ISO 7783  VAPOR BARRIER
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SLIP RESISTANCE DIN 51130

The slip resistance performed according to DIN 51130 is called "German Ramp Test" and classifies the slipperiness of the tested surfaces on foot fitted according to five classes (from R9 to R13).

The required R classifications are indicated for the various work environments; for public areas, a minimum resistance class of R9 is required.

VALPAINT I-BETON PLUS has resulted in class R10, resisting an average angle of inclination equal to 18 °, it is therefore suitable for use in public environments.

For the French standard XP 05-010 an angle of 18° corresponds to the sliding class PN 18.

RESISTANCE TO SLIP	VALPAINT I-BETON PLUS	DIN 51130	R10 CLASS	DIN 51130 ASTM C1028-07  FRICTION
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FAQ

- **Why choose a continuous surface?**

For its modern and contemporary appearance, for ease and convenience of cleaning, and for the speed of renovations: re-furbish without demolishing.

- **How resistant is a floor treated with VALPAINT I-BETON PLUS?**

The VALPAINT I-BETON PLUS has excellent resistance both in terms of compression and impact, as attested to by a range of certifications. However, it must be applied correctly to a surface with adequate resistance in order to achieve these performances. VALPAINT I-BETON PLUS cannot be used for structural restoration, but rather as a technical and aesthetic solution.

- **We have a dog at home, would you recommend resin flooring?**

Yes, that's no problem. The finish applied as protection resists both acid and scratches. In the case of a house with pets, more frequent maintenance may be necessary depending on your pet's behaviour.

- **Can I have resin flooring above a floor heating system?**

Absolutely! As the continuous coating has no heat-insulating components, it is one of the best solutions available on the market.

- **Can I use it on the stairs?**

Absolutely, provided they are solid and stable.

- **Can I apply it on my terrace?**

No. The VALPAINT I-BETON PLUS system is not suitable for application outdoors.

- **How often is maintenance required?**

That depends on how heavy the use is. The floor in a busy commercial venue will be subject to greater stress than the floor in a single-person household. As a very rough guideline, we recommend having the surface looked at approximately every 8 years, or as needed.

- **What does the maintenance consist of?**

Every surface treated with VALPAINT I-BETON PLUS has a cycle of products applied with the final coat that serve to protect the surface from scratches, stains etc. Therefore, when we speak about maintenance we mean gently sanding the surface in order to re-apply the protection cycle in an easy and minimally invasive manner.

- **Which is more resistant, ceramic or VALPAINT I-BETON PLUS?**

It's not easy to answer that, because they are two completely different products. A surface produced with VALPAINT I-BETON PLUS is the result of years of study in our chemical laboratories, combined with the years of experience of the tradesman who manually applies every square metre. The sum of the two results in a continuous surface with excellent performances. When it comes to top-quality ceramics, naturally there will be superior performances that can only be achieved through industrial processes that standardise the finished product.

Compared to parquet flooring, on the other hand, continuous surfaces obviously have a greater resistance.

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UNI 11021

**HACCP**

ISO 6272-2

**IMPACT**

UNI EN 1542

**ADHESION**

ASTM D3363-05

**HARDNESS**

ASTM D2240-15

**SHORE D**

ASTM C1028-07

**FRICTION**

UNI 10560

**WASHABILITY**

UNI EN ISO 7783

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