

FBL – SMOOTH CONCRETE FINISH

PRODUCT DESCRIPTION

- The Smooth Concrete Finish (SCF) is a complementary product to the Colored Concrete Coating (CCC). It is a decorative, millimetric mortar with a low-marked finish, tinted throughout, and with a very fine grain. It is obtained by mixing a powder and a liquid resin.
- It can be applied in very low thickness, in 1 or more layers using a smoother.
- Allows you to reduce the nuances of troweled 'polished concrete'

AREAS OF APPLICATION

- Interior
- Floors with pedestrian traffic

SUPPORTS

- EBC
- Poured floor
- Can be used in wet rooms
- The product is suitable for hot water underfloor heating and low voltage, low temperature electric under-floor heating
- Can be used for renovation following protocol (see preparation of the support) or as a finishing coat in the fresh state to replace the 3rd^{coat} of EBC
- Other media: contact us

NECESSARY TOOLS

- Scales, trapezoidal stainless steel trowel, smoothing trowel with flexible blade, painter's knife, turbine (mounted on a variable speed drill), and if necessary, sanding equipment (contact us: angle grinder and suitable discs, single brush, etc.).
- Gloves: it is recommended to wear gloves because, like many masonry/decorating products, the mixture can damage the skin (see safety information below).
- The tools are cleaned with water immediately after use.

PREPARATION OF THE SUPPORT

In 3rd^{layer} of EBC project:

24 hours after the 2nd^{coat} of EBC without impregnator, re-wet the dry surface after sanding and vacuuming.

Under renovation:

- Strip the varnish with an intensive cleaner then sand with a diamond disc or 40 grit disc until the porosity of the support is restored. If the varnish is too thick and hard without the possibility of returning to the initial concrete after sanding, apply a layer of PRMU and 1 layer of EBC then return to the 3rd layer protocol above.

PREPARATION OF THE MIXTURE

- The kit includes: a bucket of powder (white) & a can of liquid (pre-tinted binder).
- These two components should never be used separately. No other product (water, etc.) should be added and the proportions indicated below must be respected.
- During your project, it is best to use kits of the same size to ensure uniformity in the color obtained. If your order does not allow this, it is best to use the supplement kit(s) for the first layer and keep the kits of the same size for the second layer.
- If possible and if your mixer allows it, stir the powder in your bucket before mixing to homogenize the powder as much as possible.

- Note: It is strongly recommended not to mix the entire kit at once because the setting time of the product, once mixed, is short (from 1 hour at +5°C to only 30 min at +20°C)

- Instead, prepare batches of a few kilograms according to the scale indicated in the table of mixtures below.

1/ Shake the already colored container (pre-tinted binder) vigorously until you obtain a homogeneous liquid.

2/ Weigh each component, respecting the weight proportions in the table below depending on the surface to be covered.

3/ Then mix the two components (powder in the resin) carefully for at least 5 minutes with the electric stirrer at low rotation speed until you obtain a homogeneous paste (without lumps) and a uniform color.

NB : If you want to be even more precise, you can also use the weighing grid on the last page of this document.

IMPLEMENTATION

- Application temperature: +5 to +25°C.
- Indoors, close the shutters or cover the windows and avoid drafts.
- Caution: high humidity levels can cause efflorescence (lighter halos). In the case of temperatures that are too cold (less than 10°C) and/or humidity that is too high, it is advisable to leave a heater in the work area to avoid this phenomenon.
- Respect existing expansion joints in screeds or slabs.

- Application :

- Fresh in the fresh, after the 2nd^{layer} of EBC, apply the FBL in a thin layer with the smoother (Type Parfait Liss).
- It is important for this step to carefully monitor the setting (hardening) of the 2nd^{layer} before the FBL. This depends on the ambient temperature and application conditions but generally occurs between 30 minutes and 1 hour after application. As soon as the fingerprint no longer leaves an imprint on the surface, you can apply the last layer.
- If the 2nd^{layer} of EBC is too dry, slightly moisten the layer of EBC then apply the FBL in a thin layer with a smoother (Type Parfait Liss).
- To avoid retakes, the application is done with a "bead of FBL" in front of you. This layer must have completely hardened before applying the rest of the protocol. Allow to dry for at least 24 hours.

The product must be protected from moisture, frost, wind, and sun while it sets and hardens. Do not use waterproof polythene or plastic sheeting, which would prevent the product from drying properly.

FINAL DRYING / SANDING

- At least the day after application, the product must be sanded lightly or using an eccentric sander (240 grain) in order to soften and close the grain.
 - Ideally, wear socks when working on the floor.
 - Restart heating (floor or room heating) at the earliest 48 hours after application and gradually. This must be done before applying the protections.
- Caution: Turn off the underfloor heating again to apply the protections.

FINISHING / PROTECTION AND TREATMENT

- Surface treatment with one of our finishing systems must be carried out.
- The treatment chosen varies depending on the use made of the premises (see summary of finishes, consult us) and contributes to the longevity of the project.
- The finishing treatment must be carried out at least 5 days later.

It is essential to first check the residual humidity level (less than 1%), the ground temperature and the ambient temperature (see technical data sheet for protections).

- Protect the system with finishes suited to your project:
 - Solvent-based Colorless Impregnator + Protector for bathrooms and shower trays .
 - Impregnator + Two-Component Solvent-Based Varnish for areas subject to heavy stains .
 - PU impregnator + Bi-Aqua varnish for living room floors , high traffic areas.
- Commissioning: wait at least 1 week for normal traffic after the protection system has dried. During the first 10 days, take some precautions: do not cover, do not place rugs, do not move heavy furniture, dry clean (vacuum cleaner or broom).
- Regular maintenance is required. Frequency will vary depending on the use of the space and the finish selected.

In order to preserve the product and its finish, it is recommended to:

- Fix felt pads under the legs of furniture, chairs, etc.
- Do not let colored or grease stains remain... Wipe them off as quickly as possible.
- Clean the surfaces with Mercadier Shampoo.

YIELD, PACKAGING & STORAGE

- Yield: approximately 315g/m²
- The kit includes: a bucket of powder & a can of liquid

Yield Kits:

5 kg kit	Between 16 and 18 m ²

- The products can be stored for 1 year in their original, unopened packaging, away from humidity.

MECHANICAL PROPERTIES

The coating and finish will only reach their maximum strength after 28 days.

TIPS

- In hot weather, store the liquid in the refrigerator the night before work to slightly extend the application time and store the powder in a cool place.
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- Use masking tape to clearly mark out the area to be coated. Remember to remove this tape before the coating has completely dried. Repeat this process for each coat.

RELATED PRODUCTS

- EBC, PMB, AXXX and SC+
- Finishes:
 - Solvent-based colorless impregnator + protector for bathrooms and shower trays.
 - Impregnator + Two-Component Solvent-Based Varnish for areas subject to heavy stains.
 - PU Impregnator + Bi-Aqua Varnish for living room floors, high traffic areas.

RECOMMENDATIONS AND WARNINGS

- Consult the most recent version of this technical sheet (see website). Our Distance Selling service and our resellers are at your disposal for any additional information.
- Decorative coatings such as 'polished concrete' are materials with a continuous appearance, with very few joints and splits. Despite a certain flexibility, they can accept certain deformations of the support, but to a certain extent. The decorative material is therefore (like paints and other decorative coatings) sensitive to movements of the support. In the event of significant differential movement of the latter, cracks may appear, despite all the care taken during application.
- The guarantees of good performance and longevity can only be acquired in the event of use of the complete system of the Mercadier ranges (primer, 'concrete' and finish) and strict compliance with the instructions for use of this system as well as the maintenance recommendations. We cannot therefore be held responsible in any way in the event of an application not in accordance with our information and not using our entire system.
- Information, tips and advice relating to the end use of MERCADIER products are provided in good faith. They are based on the knowledge and experience that MERCADIER has acquired to date with its products when properly stored, handled and applied under normal conditions. In practice, differences between materials, substrates and specific site conditions are such that this information or any written recommendations or advice given do not imply any warranty of merchantability other than the legal warranty against hidden defects.

- The colors and appearances shown on our color charts are indicative and cannot be considered contractual. The same applies to the panels presented in store. Where possible, it is preferable to use identical batches. These products have a nuanced final rendering which can also vary depending on the application conditions (applicator's gesture, temperature, etc.).

SAFETY / PRECAUTIONS

Powder (Component A):

Danger. Contains Portland cement, chemical (266-043-4)

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Dispose of contents/container in accordance with local regulations.

Binder (Component B):

Caution. Contains 1,2-benzisothiazol-3(2H)-one,2-methyl-2H-isothiazol-3-one (MIT), mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (C(M)IT/MIT (3: 1)) (3: 1)

May cause an allergic skin reaction. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves. IF ON SKIN: Wash with plenty of water. Dispose of contents/container in accordance with local regulations.



In accordance with the new French regulations that impose limit values for the VOC (Volatile Organic Compound) content of construction products, this Mercadier product is environmentally friendly. This regulation requires construction and decoration products to have a label indicating their volatile pollutant (VOC) emission level in a simple and legible manner.

* Information on the level of emission of volatile substances in indoor air, presenting a risk of toxicity by inhalation, on a class scale ranging from A+ (very low emissions) to C (high emissions).

The information contained in this sheet is the expression of our knowledge and test results; it cannot under any circumstances be considered as providing a guarantee or as engaging our liability in the event of defective application .

Specific Color Grid - Weight Binder Tinted according to kg Powder

Nom de la teinte	Base	0.10	0.15	0.20	0.25	0.30	0.40	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00
Agave	BLANC	0.036	0.054	0.072	0.090	0.108	0.144	0.180	0.360	0.540	0.720	0.900	1.080	1.259	1.439
Alberte	BLANC	0.037	0.056	0.075	0.094	0.112	0.150	0.187	0.374	0.561	0.748	0.936	1.123	1.310	1.497
Amande	BLANC	0.034	0.051	0.068	0.086	0.103	0.137	0.171	0.342	0.513	0.684	0.855	1.026	1.197	1.368
Arapawa	BLANC	0.035	0.053	0.070	0.088	0.105	0.140	0.176	0.351	0.527	0.702	0.878	1.053	1.229	1.404
Atacama	BLANC	0.036	0.054	0.073	0.091	0.109	0.145	0.181	0.363	0.544	0.725	0.907	1.088	1.270	1.451
Atlas	BLANC	0.039	0.058	0.077	0.097	0.116	0.155	0.193	0.387	0.580	0.773	0.967	1.160	1.353	1.547
Béton	BLANC	0.036	0.053	0.071	0.089	0.107	0.142	0.178	0.355	0.533	0.710	0.888	1.065	1.243	1.421
Bioutifoul	BLANC	0.037	0.055	0.073	0.092	0.110	0.147	0.184	0.367	0.551	0.735	0.919	1.102	1.286	1.470
Bisou	BLANC	0.034	0.051	0.068	0.086	0.103	0.137	0.171	0.342	0.514	0.685	0.856	1.027	1.198	1.369
Bitume	BLANC	0.037	0.055	0.073	0.091	0.110	0.146	0.183	0.366	0.548	0.731	0.914	1.097	1.279	1.462
Blush	BLANC	0.037	0.055	0.074	0.092	0.111	0.148	0.184	0.369	0.553	0.738	0.922	1.107	1.291	1.476
Brouillard	BLANC	0.035	0.052	0.070	0.087	0.104	0.139	0.174	0.348	0.522	0.696	0.870	1.044	1.218	1.392
Brume	BLANC	0.034	0.052	0.069	0.086	0.103	0.138	0.172	0.344	0.516	0.688	0.860	1.032	1.204	1.376
Cap Roux	BLANC	0.039	0.058	0.077	0.097	0.116	0.155	0.194	0.387	0.581	0.775	0.968	1.162	1.356	1.549
Cappadoce	BLANC	0.037	0.056	0.074	0.093	0.112	0.149	0.186	0.372	0.559	0.745	0.931	1.117	1.304	1.490
Baloud	BLANC	0.035	0.052	0.069	0.087	0.104	0.138	0.173	0.346	0.519	0.692	0.865	1.038	1.211	1.384
Ciste	BLANC	0.035	0.053	0.071	0.088	0.106	0.142	0.177	0.354	0.531	0.708	0.885	1.062	1.239	1.416
Cocomilk	BLANC	0.034	0.051	0.068	0.085	0.102	0.136	0.170	0.340	0.511	0.681	0.851	1.021	1.192	1.362
Colonel	BLANC	0.037	0.056	0.075	0.093	0.112	0.150	0.187	0.374	0.561	0.748	0.934	1.121	1.308	1.495
Crique	BLANC	0.035	0.052	0.070	0.087	0.105	0.140	0.175	0.350	0.524	0.699	0.874	1.049	1.223	1.398
Crumble	BLANC	0.036	0.054	0.072	0.090	0.108	0.144	0.179	0.359	0.538	0.718	0.897	1.076	1.256	1.435
Délice	BLANC	0.034	0.052	0.069	0.086	0.103	0.138	0.172	0.344	0.516	0.688	0.860	1.033	1.205	1.377
Douceur	BLANC	0.036	0.054	0.072	0.090	0.108	0.143	0.179	0.359	0.538	0.717	0.897	1.076	1.255	1.435
Ecume	BLANC	0.034	0.051	0.068	0.085	0.103	0.137	0.171	0.342	0.513	0.684	0.855	1.026	1.197	1.368
Fernand	BLANC	0.034	0.052	0.069	0.086	0.103	0.138	0.172	0.344	0.516	0.688	0.859	1.031	1.203	1.375
Figuier	BLANC	0.040	0.060	0.079	0.099	0.119	0.159	0.199	0.397	0.596	0.794	0.993	1.192	1.390	1.589
Gelato	BLANC	0.035	0.053	0.070	0.088	0.105	0.140	0.175	0.351	0.526	0.701	0.877	1.052	1.228	1.403
Golfe Clair	BLANC	0.035	0.053	0.070	0.088	0.106	0.141	0.176	0.352	0.528	0.705	0.881	1.057	1.233	1.409
Graphite	BLANC	0.036	0.053	0.071	0.089	0.107	0.142	0.178	0.356	0.534	0.712	0.890	1.068	1.246	1.424
Helios	BLANC	0.037	0.055	0.073	0.092	0.110	0.146	0.183	0.366	0.549	0.732	0.915	1.098	1.281	1.464
Hoggar	BLANC	0.038	0.057	0.075	0.094	0.113	0.151	0.188	0.377	0.565	0.754	0.942	1.130	1.319	1.507
Hollywood	BLANC	0.037	0.055	0.074	0.092	0.111	0.147	0.184	0.369	0.553	0.737	0.922	1.106	1.290	1.475
Hubert	BLANC	0.037	0.056	0.074	0.093	0.112	0.149	0.186	0.372	0.558	0.744	0.930	1.116	1.302	1.488
Isla Nublar	BLANC	0.038	0.057	0.076	0.095	0.114	0.152	0.190	0.379	0.569	0.758	0.948	1.137	1.327	1.516
Joubarbe	BLANC	0.037	0.056	0.074	0.093	0.111	0.148	0.185	0.370	0.556	0.741	0.926	1.111	1.296	1.482
Laurier	BLANC	0	0.054	0.072	0.090	0.108	0.144	0.180	0.361	0.541	0.722	0.902	1.083	1.263	1.443
Little Sister	BLANC	0.037	0.055	0.074	0.092	0.111	0.148	0.185	0.369	0.554	0.738	0.923	1.107	1.292	1.477

Specific Color Grid - Weight Binder Tinted according to kg Powder

Nom de la teinte	Base	0.10	0.15	0.20	0.25	0.30	0.40	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00
Mécanique	BLANC	0.038	0.056	0.075	0.094	0.113	0.150	0.188	0.375	0.563	0.750	0.938	1.125	1.313	1.501
Michaël	BLANC	0.034	0.051	0.069	0.086	0.103	0.137	0.172	0.343	0.515	0.686	0.858	1.030	1.201	1.373
Mignon	BLANC	0.036	0.054	0.072	0.090	0.108	0.144	0.179	0.359	0.538	0.718	0.897	1.077	1.256	1.436
Miramar	BLANC	0.037	0.055	0.073	0.091	0.110	0.146	0.183	0.366	0.548	0.731	0.914	1.097	1.279	1.462
Moket	BLANC	0.037	0.056	0.075	0.093	0.112	0.149	0.187	0.374	0.561	0.747	0.934	1.121	1.308	1.495
Mon Étoile	BLANC	0.038	0.057	0.076	0.096	0.115	0.153	0.191	0.382	0.573	0.764	0.956	1.147	1.338	1.529
Mon Vitrier	BLANC	0.035	0.052	0.070	0.087	0.105	0.140	0.175	0.350	0.525	0.699	0.874	1.049	1.224	1.399
Mulot	BLANC	0.036	0.054	0.072	0.090	0.108	0.144	0.180	0.360	0.541	0.721	0.901	1.081	1.261	1.442
Namib	BLANC	0.040	0.060	0.081	0.101	0.121	0.161	0.202	0.403	0.605	0.806	1.008	1.209	1.411	1.612
Nil	BLANC	0.035	0.052	0.069	0.086	0.104	0.138	0.173	0.345	0.518	0.691	0.864	1.036	1.209	1.382
Noisette	BLANC	0.035	0.052	0.070	0.087	0.104	0.139	0.174	0.348	0.522	0.696	0.870	1.044	1.218	1.392
Nougat	BLANC	0.034	0.052	0.069	0.086	0.103	0.138	0.172	0.345	0.517	0.690	0.862	1.034	1.207	1.379
Ok	BLANC	0.037	0.056	0.074	0.093	0.112	0.149	0.186	0.372	0.558	0.744	0.930	1.116	1.302	1.488
Ottomane	BLANC	0.037	0.055	0.074	0.092	0.111	0.148	0.184	0.369	0.553	0.738	0.922	1.106	1.291	1.475
Palace	BLANC	0.037	0.055	0.073	0.091	0.110	0.146	0.183	0.365	0.548	0.731	0.913	1.096	1.278	1.461
Peggy	BLANC	0.037	0.056	0.075	0.093	0.112	0.149	0.186	0.373	0.559	0.745	0.931	1.118	1.304	1.490
Petra	BLANC	0.038	0.058	0.077	0.096	0.115	0.153	0.192	0.384	0.575	0.767	0.959	1.151	1.342	1.534
Picnic	BLANC	0.038	0.057	0.076	0.095	0.114	0.152	0.189	0.379	0.568	0.758	0.947	1.137	1.326	1.515
Pompadour	BLANC	0.035	0.053	0.070	0.088	0.105	0.140	0.175	0.350	0.525	0.700	0.875	1.050	1.225	1.400
Poupée	BLANC	0.035	0.053	0.070	0.088	0.105	0.140	0.175	0.351	0.526	0.702	0.877	1.053	1.228	1.404
Raisin	BLANC	0.038	0.056	0.075	0.094	0.113	0.151	0.188	0.377	0.565	0.753	0.941	1.130	1.318	1.506
Russule	BLANC	0.035	0.052	0.070	0.087	0.105	0.139	0.174	0.348	0.523	0.697	0.871	1.045	1.219	1.394
Rustrel	BLANC	0.037	0.056	0.075	0.093	0.112	0.149	0.186	0.373	0.559	0.745	0.932	1.118	1.304	1.490
Sari	BLANC	0.037	0.055	0.073	0.092	0.110	0.147	0.184	0.367	0.551	0.735	0.918	1.102	1.285	1.469
Sheffield	BLANC	0.037	0.056	0.075	0.094	0.112	0.150	0.187	0.374	0.562	0.749	0.936	1.123	1.311	1.498
Sugar	BLANC	0.035	0.052	0.069	0.086	0.104	0.138	0.173	0.345	0.518	0.690	0.863	1.035	1.208	1.380
Tajine	BLANC	0.036	0.054	0.072	0.091	0.109	0.145	0.181	0.362	0.543	0.724	0.905	1.086	1.267	1.448
Tasmanie	BLANC	0.038	0.057	0.076	0.095	0.114	0.152	0.190	0.381	0.571	0.762	0.952	1.143	1.333	1.524
Taupe	BLANC	0.038	0.057	0.076	0.095	0.114	0.152	0.190	0.380	0.570	0.760	0.950	1.139	1.329	1.519
Titouan	BLANC	0.038	0.058	0.077	0.096	0.115	0.153	0.192	0.383	0.575	0.767	0.959	1.150	1.342	1.534
Trempette	BLANC	0.035	0.052	0.069	0.087	0.104	0.139	0.173	0.346	0.520	0.693	0.866	1.039	1.213	1.386
Türkis	BLANC	0.038	0.056	0.075	0.094	0.113	0.151	0.188	0.376	0.565	0.753	0.941	1.129	1.317	1.505
Vénus	BLANC	0.035	0.053	0.070	0.088	0.105	0.140	0.175	0.351	0.526	0.702	0.877	1.053	1.228	1.404
Wasabi	BLANC	0.037	0.055	0.074	0.092	0.111	0.147	0.184	0.369	0.553	0.737	0.921	1.106	1.290	1.474
Yourte	BLANC	0.036	0.054	0.072	0.090	0.108	0.144	0.179	0.359	0.538	0.718	0.897	1.077	1.256	1.436
Yuma	BLANC	0	0.053	0.071	0.089	0.107	0.142	0.178	0.356	0.534	0.712	0.891	1.069	1.247	1.425
Zinc	BLANC	0.037	0.056	0.074	0.093	0.111	0.148	0.185	0.371	0.556	0.742	0.927	1.113	1.298	1.484