

MasterFinish SRT 500

Solvent free, aqueous surface retarder for the manufacturing of outstanding exposed aggregate concrete by positive application, with an anti-evaporation effect.

Material description

MasterFinish SRT 500 is an aqueous dispersion of high-grade active components free of organic solvents. After even application on the surface of the freshly placed concrete prior to setting, the product forms a highly effective layer that deactivates the hardening in a defined depth. High pressure washing then exposes the aggregates, resulting in exposed aggregate concrete.

The MasterFinish SRT 500 line contains inorganic pigments of varying colors depending on the required degree of exposure of the aggregates.

A guide for a correct use is provided in the table below:

Orange	sandblasted appearance
Blue	bush-hammered appearance
Green	Advised aggregate size: higher than 6 mm.
Yellow	Advised aggregate size: 8 - 10 mm.
Pink	Advised aggregate size: 10 - 16 mm.
Beige	Advised aggregate size: 10 - 16 mm.
Grey	Advised aggregate size: higher than 16 mm.

The values of exposure depth are rough guides, because they depend on different factors. The MasterFinish SRT 500 type must be adjusted to the amount and type of cement and any other actions influencing exposure depth. The choice of retarder color will depend on the desired aesthetic result. It is recommended to conduct preliminary tests to find the correct product to apply based on the desired effect.

For example, Figure 1 shows the comparison between pink and orange MasterFinish SRT 500 for a concrete with Dmax of 14 mm.

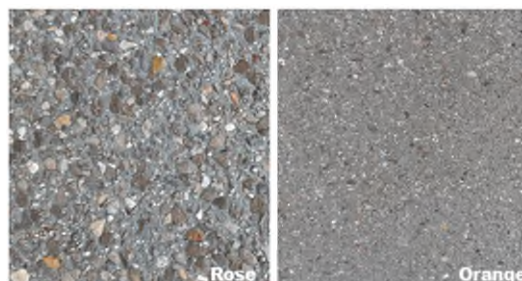


Figure 1 : Appearance after washing, concrete with grey cement (Dmax 14 mm) with pink and orange MasterFinish SRT.

Fields of application

MasterFinish SRT 500 can be used for all applications requiring a positive exposed aggregate concrete effect and is recommended for:

- urban or private traffic areas and pavements (pedestrian areas, squares, parking lots, sidewalks, external stairs, private or shared outdoor paving, garage ramps, etc.);
- production of gardening and street furniture elements with exposed aggregates (Palisades, kerbstones, planters, pavers, panels, etc);
- architectural concrete

Features and benefits

The advantages of MasterFinish SRT 500 are the following:

- Biodegradable formula according to the NF EN ISO 9408 – OCDE 301B standard (Biodegradability greater than 60% after 28 days - NF EN ISO 9408 – OCDE 301B tests);
- Easy to spray and wash;
- Significantly improved curing capacity, according to the NF P18-370 standard (>70% after 6 hours);
- Extended wash interval. Tests conducted on CEM I White and Grey demonstrate a very similar aesthetic result

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between 24 and 48-hour washes (Figure 2); Penetration depth relatively unaffected by temperature differences (tests conducted at +5°C and +35°C).

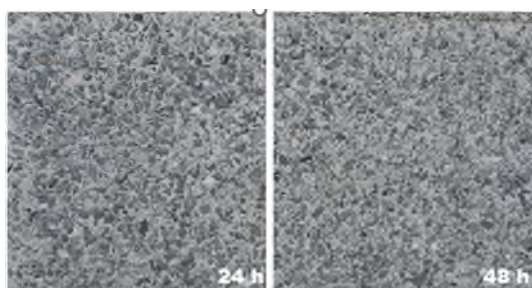


Figure 2: appearance after washing, concrete with white cement (D_{max} 14 mm) with pink MasterFinish SRT at 35°C 24 h and 48 hours after application.

MasterFinish SRT 500 is a low-viscosity product and is easily applied by spraying with a specific sprayer or airless gun. MasterFinish SRT 500 dries quickly, forms a moisture- and abrasion-resistant layer, and can be applied to any concrete surface. It is recommended to cover concrete treated with MasterFinish SRT 500 in case of rain.

MasterFinish SRT 500 is recommended and allows:

- work in a healthier environment, as it is free of organic solvents;
- easy and economical application;
- for excellent surface finishes.

Dosage

The suggested coverage of MasterFinish SRT 500 range from 3 to 5 kg per square meter of surface to be treated, depending on the type of substrate and the adsorption of the materials. The density is approximately 1 g/cm³.

Packaging and Storage

MasterFinish SRT 500 is available in 20 kg cans and 10 kg samples. Storage is recommended at temperatures between +5°C and +30°C. MasterFinish SRT 500 can be stored in its original packaging at 20°C for 18 months.

Directions for use

MasterFinish SRT 500 has to be mixed thoroughly before use. We recommend airless application on fresh concrete, ensuring a full coverage of the surface. If using a standard sprayer with a 1-2 mm nozzle, the recommended pressure is 2-4 bars. We recommend the flat jet nozzles 9002, 11002, 9003, and 11003. The filter supplied with the nozzle can be removed if necessary.

Areas surrounding the construction sites must be protected with polyethylene sheeting. The concrete must be homogeneous, without segregation, otherwise an uneven finish will result. The concrete surface to be treated must be float-finished. Applying the deactivator to a dry surface will result in an uneven finish.

The concrete must remain workable until MasterFinish SRT 500 is applied, regardless of temperature.

The surface treated with MasterFinish SRT 500 is cleaned once the concrete has hardened, typically one day after application, using a pressure washer.

Wash the surface with high-pressure water (100 to 150 bar) at a constant distance (20 to 60 cm), maintaining a 45° angle between the jet and the surface.

MasterFinish SRT 500 is relatively insensitive to cleaning times and temperature conditions; however, to achieve the desired appearance, preliminary testing is required to determine the cleaning time.

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Compatibility

When mixing exposed aggregate concrete, we recommend the following:

- high-efficiency water-reducing admixture from the MasterGlenium or MasterEase range;
- MasterPel 790 bulk hydrophobic admixture;
- MasterFiber 012 or MasterFiber 018 crack-resistant polypropylene fiber at a dosage of 600 g/m³;
- MasterColor 100 range of mineral oxide-based powder pigments for colored architectural concrete.

Safety information

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

Other services

For additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.



Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

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Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.

Master Builders Solutions Italia Spa

Via Vicinale delle Corti, 21 – 31100 Treviso – Italia

T +39 0422 429200 F +39 0422 421802

www.master-builders-solutions.com/it-it

e-mail: infomac@masterbuilders.com