

AMITOL S3

CONCRETE SURFACE RETARDER FOR NEGATIVE APPLICATION

Amitol S3 is a surface retarder for the production of washed concrete products using the negative application process. Our surface retarder is available in ten varieties for varying aggregate exposure depths.

Type	Color	Aggregate Size	Exposure Depth
S3/Mikro	Turquoise	0 - 3 mm	ca. 0.2 mm
S3/01	Blue	0 - 4 / 8 mm	ca. 0.5 mm
S3/02	Brown	2 - 4 / 8 mm	ca. 1.0 mm
S3/10	Green	4 - 8 / 10 mm	ca. 1.5 mm
S3/25	Yellow	4 - 8 / 10 mm	ca. 2.0 mm
S3/50	Red	6 - 9 / 12 mm	ca. 2.5 mm
S3/80	Gray	8 - 11 mm	ca. 3.0 mm
S3/130	White	12 - 16 mm	ca. 4.0 mm
S3/200	Orange	16 - 22 mm	ca. 5.0 mm
S3/300	Red-Violet	16 - 22 mm	ca. 6.0 mm

The exposure depths are standard values. The results are dependent on the class of cement, water-cement ratio, aggregate grading, and quantity of cement used. Our technical support staff are available to advise you in determining the suitable product for your requirements.

CHARACTERISTICS

There are ten different types of AMITOL S3 available and these are readily distinguishable by color. The product is easy and economical to apply, usually only one coat of the formwork is needed per application.

AREAS OF APPLICATION

AMITOL S3 is the ideal solution for the production of washed concrete surfaces including: façade coverings, soundproof walls, landscaping, concrete products, special components, architectural concrete elements and roughening of concrete segment joints. This product is especially applicable when producing architectural concrete or products with complex forms.

GUIDANCE FOR APPLICATION

Before each application, AMITOL S3 should be stirred well with a power whisk. The right type of AMITOL S3 must be determined in practical sample tests (cement composition, course of production and timing, element thickness, and the setting rate of the cement are to be observed).

Additionally the drying time must be taken into account. The heating of the mold should occur, at the earliest, two hours after pouring. The production process used for the sample tests must be exactly replicated to ensure like results. The exposure cycle should be maintained or, with extreme temperature fluctuations, adjusted as necessary.

NEGATIVE APPLICATION

AMITOL S3 should be applied sparingly and evenly to the clean form (free of release agents). This should be done with a short pile paint roller, resistant to solvents. After the required drying time, based on weather conditions, the concrete can be poured. Optimal vibrating of the mix should be determined in the sample tests.

Unavoidable changes in the parameters determined in the sample tests can usually be offset by the use of other AMITOL S3 types or by adapting the course of the production / mix. When using new, polymer-modified casings, the pH-value is to be checked. With an alkaline surface, we recommend neutralizing the casing before the first AMITOL S3 application; this can be achieved by cleaning with our SICOROL ZE. For the removal of wax or separating agent residue or for cleaning the formwork we recommend the use of our AMITOL cleaner.

FABRINO

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WASHING OUT

Typically, washing out of the cement matrix should take place after 24 hours. The cast elements must remain in the formwork for at least eight hours. A delayed wash out, such as after production on the weekend, is possible subject to a sample test. When producing multiple elements the production cycle must be exactly replicated for each pour. To compensate for possible fluctuations in the production parameters or to achieve a reduction of the exposure depth, the cast elements can be exposed to the air for two to eight hours prior to the wash out (determination of the exact time with a sample test). The wash out occurs most efficiently with a high-pressure hose. Dry brushing and final wash out is possible, but sample tests should first be conducted.

We recommend that the electrical equipment which is used alongside the application of AMITOL (dosing pump motors, etc.) should be classed as explosion-protected to ensure safety. Seals made of Teflon are recommended. Subsequent cleaning of tools and accessories can be done using our AMITOL cleaner.

CONSUMPTION

Between **120 – 250 g/m²**.

TECHNICAL DATA

Form	liquid
Color	various
Density	1 - 1.1 g/cm ³
Shelf life	1 year from date of production
Storage	cool, free from frost, well ventilated and away from sources of ignition
Container	20 kg container

SAFETY

See European Union safety data sheet.

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