

DRY POWDER RELEASE

PRODUCT SPECIFICATION SHEET

PRODUCT DESCRIPTION

Flex Stone Dry PowderRelease is a coloured powder made up of zinc stearate, iron oxide, and steric acid that forms a waterproof barrier and reduces concrete build-up on Flex Stone Texture Mats. It is made with the finest ultra-violet-resistant pigments available and it stands up to the effects of sunlight. It is designed to be streak-free and is made from finely ground formula that works with polyurethane, texturing mats to create a beautifully antiqued and textured concrete surface.

It is broadcast over the concrete surface prior to placing the stamping or texturing tools. As the imprinting tool is pressed into the plastic concrete surface, a portion of the Powder Release is embedded into the textured surface of the concrete. As the tool is removed, it breaks cleanly, without marring the colour concrete surface. Upon washing and sealing, the difference in colour between the base concrete and the release creates a visually attractive, antiqued look to the concrete. The amount of release agent retained on the concrete will vary. Dry Powder Release can be used in matching or contrasting colours to create a variety of effects.

USES

Flex Stone's Dry Powder Release may be broadcasted onto the concrete surface, prior to the placement of mat-type texturing tools or rollers. The release prevents the concrete from adhering to the texturing mats. A portion of the release becomes imbedded into the concrete, usually where there is relief in the texturing tool, leaving behind an antiqued appearance. Flex Stone's Dry PowderRelease can be used in matching or contrasting colours to create a variety of effects. A combination of colours can add realistic shading and highlights to the finished concrete surface.

BENEFITS

- Prevents concrete build-up
- Prolongs tool life
- Streak-free, Fade- resistant
- Unlimited Effects & Colour Combinations
- Moisture tolerant and breathable
- Very low influence from concrete vapour emission

SHELF LIFE

If properly stored, the expected shelf life can exceed 6 months. However, it is recommended that FlexStone Dry Powder Release agent be used as soon as possible after delivery. Rotate stock to use oldest inventory first. Store under roof and keep dry.

LIMITATIONS

Powder Release should not be used as the primary colouring agent. It should not be towelled into concrete. Do not use as a curing compound. Powder Release will produce variegated colours and is a function of concrete mix design, timing, method of application and removal, method of imprinting, and weather. Avoid over application, which may minimize the depth of texture. Cover and protect adjacent surfaces from contamination during application and residue removal.

CAUTIONS

Flex Stone Dry Powder Release must be installed over a stable substrate using proper preparation and installation procedures. All expansion/cut joints in the existing substrate must be honoured. Extra joints may be added as deemed necessary by the installer. Flex Stone Dry Powder Release must be used within Flex Stone standards and procedures for the Flex Stone warranty to be valid. These have been chemically engineered to be compatible with Flex Stone products to provide the maximum physical properties and prevent loss of bond to the substrate. All concrete finishers and all onsite personnel must wear OSHA-NIOSH approved dust respirator while applying or working around this product. Avoid contact with skin and eyes. Wear rubber gloves to protect skin and safety eye goggles. Close containers after each use. Use good hygiene when handling this product and wash/bath after each use. Be sure to wash clothing after each use.

PHYSICAL PROPERTIES

Boiling point	N/A
Melting point	N/A
Specific gravity (water=1)	N/A
Vapor pressure (mm hg)	N/A
Vapor density (air=1)	N/A
Evaporation rate (ether=1)	N/A
Appearance & Odour	Dry powder of varying colours
Flash point	N/A
Flammable limits: lower explosive limit	N/A
Upper explosive limit	N/A

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CLEANABILITY

In general, the more aggressive the finished surface is, the greater the coefficient of friction and corresponding skid resistance, hence more difficult to clean. The smoother the finished texture, the easier the surface is to clean, but there is a loss of skid resistant properties. Cleaning and disinfecting compounds and cleaning techniques can affect the colour, gloss, texture and performance of the system. As the precautionary step, Flex Stone Inc. recommends that the end-user test their cleaning and disinfecting compounds on a non-conspicuous area before use. Follow sealer manufacturer recommendations for maintenance and cleaning. Slip resistance is greatly effected by the sealers and texture used. Follow sealer manufacturer recommendations for slip resistance and prevention.

COVERAGE

The rate of application for Flex Stone Dry Powder Release will vary depending upon the depth of the texturing-mat impressions, the degree to which the concrete has been set, and the intensity of the contrast desired. Generally, 3.5 lbs. (1.57 kg) or more per 100 square feet (9.29m²) is required.

APPLICATION

Cover and protect adjacent surfaces near the work area prior to applying Dry Powder Release. This is especially critical on windy days. The concrete surface should be lightly trowel before the application. Rougher finishes may require more material to achieve the proper coverage and may retain an excessive amount of release powder after the removal process, thereby affecting the colour of the surface. Immediately prior to the placement of stamping mats, texturing skins or texture rollers, broadcast Powder Release uniformly over the surface. Apply enough release so that the moist sheen on the concrete surface is covered. Do not apply over standing bleed water. Powder Release should not be broadcast for more than a few meters or from above the knee to minimize drifting outside of the work area. Once applied, do not work the surface with a float or a trowel. The surface of the imprinting tools should also be lightly brushed with the release powder. Timing is critical; applied too early, the powder release may be difficult to remove; applied too late, and most of the powder release will be removed during the removal and cleaning process.

REMOVAL

After imprinting has been completed, the residual Powder Release must be removed to prevent tracking and loss of adhesion when liquid colour is applied. Do not clean the surface until the concrete has cured for 24-48 hours. Cold temperatures may delay the cleaning process, since the concrete will require a longer cure time. Cleaning too soon may cause complete loss of

the enhanced colour, as well as damage to the colour concrete substrate. A small area should be test cleaned to evaluate the cleaning process and the resultant colorations. Sweep or vacuum excess release, and follow by scrubbing with a soft bristled brush and water. Water can be applied with a garden hose or a high pressure wash. With either method, take care not to damage the surface of the curing concrete or remove too much antiqued colorations. Protect adjacent surfaces from runoff. Dispose of all residual materials in accordance with local, state, and federal regulations. The powder release is mechanically bonded to the concrete, so the surface must be sealed and maintained to preserve its antiqued appearance over time.

LIMITED WARRANTY

NO WARRANTY SHALL BE EFFECTIVE UNTIL THE TERMS AND CONDITIONS OF SALE SET FORTH IN Flex Stone Inc. - Consolidated Aggregates, INVOICE ARE MET.

Flex Stone Inc. warrants to the purchaser of its products that such products are free from manufacturing defect. Flex Stone Inc. does not warrant or guarantee the workmanship performed by any person or firm installing its products. Flex Stone Inc. obligation under this warranty is limited solely to the original purchaser and solely to replacement in kind of any Flex Stone Inc. product which may prove defective in manufacture within three years from date of installation, provided said product was stored correctly and installed within the product's shelf life, by the original purchaser and upon examination, by Flex Stone Inc., shall be deemed defective.

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