

➤ PRODUCT DESCRIPTION

CONCREATION CANADA INC. RELEASE POWDER is a dry blend of hydrophobic powders, proprietary ingredients with colouring pigments. Concreation Release Powder is designed for use in the concrete imprinting process to allow the clean release of texturing tools from the wet concrete surface. CONCREATION RELEASE POWDER adds colour variations and highlights to the textured surface, providing an attractive two-colour antiqued look that very closely resembles natural materials such as cobblestone, brick, tile and slate.

The release powder is the highlighter not the primary colourant in the concrete; colouring of the concrete achieved by using colour hardeners. Colour hardener provides a greater colour selection including light hues and pastel, the resulting finish has a harder more wear resistant surface and the material cost is low.

➤ RELEASE POWDER FEATURES AND BENEFITS

- Allows a clean bond break between fresh concrete and stamping mats.
- Adds colour variation-antiquing effect for stamped surfaces.
- Easy removal process allows for controlled removal to achieve desired shading effect.

➤ LIMITATIONS

The final colour of the concrete is affected by many factors. It may be a function of the basic concrete mix ingredients (fine aggregate, coarse aggregate, water and cement), the weather, finishing techniques, experience of the applicators, and coloring method used (colour hardener or acid stain).

➤ FACTORS AFFECTING FINAL COLOUR

- Rapid moisture loss from within the concrete due to absorption from dry sub-grade or formwork.
- Rapid moisture loss at the concrete surface caused by wind, elevated temperatures or sunlight.
- Over working the concrete surface. Surface water should never be worked into the concrete. Always wait until bleed water has dried or evaporated before finishing concrete.
- Poor workmanship: Workers should be experienced in finishing, texturing, colouring stamp placement and removal, and curing and sealing decorative concrete.
- Troweling release powder into concrete.
- Weather; follow ACI guidelines when pouring on cold or hot weather.

➤ CONCRETE MIX DESIGN

The concrete shall have a minimum compressive strength of 3,000 psi in non-freeze areas, 3,500 psi in moderate freeze-thaw areas and 4,000 psi in severe freeze-thaw areas. Portland cement shall conform to ASTM C 150 Type I, II, or V, depending on soil conditions. Aggregates shall conform to ASTM C33. Mixing water shall be fresh, clean and potable. In freeze-thaw areas only, an air-entraining admixture complying to ASTM C 260 shall be used to achieve an entrained air content for the particular mix used in accordance with the published recommendations of the Portland Cement Association. No admixtures containing calcium chloride shall be permitted.

Water reducers, plasticizers, accelerant, retarders and other admixtures are allowed as long as they have been thoroughly tested and approved to be compatible with color hardener, release powder and liquid release. Some admixtures while providing an enhanced performance for the mix may cause negative effects on the finishing and color of the slab; discoloration, stickiness (causing the stamps to "pull" concrete up) and other adverse effects have been observed.

➤ DIRECTIONS FOR USE

After concrete is colored with Concreation Colour Hardener and it reaches the proper set for imprinting, hand broadcast the release powder evenly over the surface to be stamped. Care should be taken not to trowel the release powder into the wet concrete; this will cause a permanent discoloration. After release powder has been applied, follow your regular procedure for stamping concrete.

➤ TIPS

- It is helpful to also coat the stamps with release powder before placing on wet concrete for the first time.
- Never drag anything on the surface or trowel over release powder. Discolouration will occur.
- If the stamps have been recently washed, they must be fully dry before starting to stamp. Any moisture still left on the mats will decrease the release powder efficiency resulting on concrete adhering to the stamp.
- Always cover walls, columns and plants with 1 mill plastic liner to avoid excessive clean up labor.
- Before pressure washing the concrete, broom off the release powder or pick up with a wet vac.
- The release powder may also be removed without pressure washing by using a liquid soap and brooms to remove excess.
- If after pressure washing and cleaning there is still too much release on the surface a very mild water/muriatic acid solution may be used to complete the removal. Use this process with caution.
- If too much release is removed you may antique the concrete with a liquid antiquing mix made with Concreation Clear sealer + solvent + release powder sprayed onto the surface.

➤ **MAINTENANCE**

It is highly recommended to develop and follow a routine maintenance schedule for all coloured concrete so that it will maintain a top-quality appearance. Every 24 to 60 months, coloured concrete installations should be inspected, cleaned and resealed as required by volume and intensity of traffic. The need will depend on a number of factors including traffic conditions, geographical location and weather.

➤ **CAUTIONS**

Use face mask or respirator. Do not allow getting into eyes. Keep out of the reach of children. Prolonged breathing will cause throat and lung irritation. Protect all adjacent areas. See Material Safety Data Sheets for further information.

➤ **SHELF LIFE**

Indefinitely if protected from moisture.

➤ **COVERAGE**

1000 to 1200 square feet per 38-pound pail / 93 to 112 square meters per 17.24-kilogram pail. Coverage rates vary with application technique, wind conditions and texture of the concrete prior to application.

➤ **PACKAGING**

Pail, 38 pounds/17.24 kilograms.

➤ **WARRANTY**

Concreation Canada Inc CCI-300 Powder Release Agent is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective.

MADE IN CANADA

FOR PROFESSIONAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET BEFORE USE.