

Colourmix - Powdered Integral Colour

2024

Permacolour Colourmix is one of the most advanced systems for colouring concrete in both internal and external applications.



Colourmix - Powdered Integral Colour

DESCRIPTION

Permacolour Colourmix is a blend of high quality, UV stable, synthetic Iron oxide, packaged in water-soluble bags with an outer paper bag for protection. Considered the most economical and simplest method of adding colour to the concrete, at the batching plant or onsite. Permacolour Colourmix comes in powdered form. Pigments used in Permacolour Colourmix meet both European standard EN12878 and American standard ASTM C79-82. Designer colours and colour matches are available upon request.

USES

- Driveways
- Patios
- Traffic islands and circles
- Internal floors
- Tilt panels
- Precast products like bricks ,blocks, concrete roof tiles and pavers
- Moulded ornamental castings
- Bench/counter tops
- Skateparks
- Any concrete requiring Integral colour

FEATURES

- Dissolvable
- UV-Resistant Colour
- Mixes Evenly
- Meets ASTM C979

MIX DESIGN

The concrete should be designed to meet the strength and finishing requirements of the project with a minimum strength of 20mpa and a maximum slump of 100 mm. Use clean aggregates and cement accurately for each batch. Keep additional water for pouring to a minimum. Do not use reactive aggregates or Calcium Chloride or any admixture containing Calcium Chloride. Permacolour Powdered Integral Colour is compatible with

plasticizers and air-entraining products designed for colouring concrete.

BATCH TO BATCH UNIFORMITY

Consistent colour can only be achieved by using the same sand, cement, aggregates, water-content and mixing time. Differences in colour of cement, sand, aggregates and volume of water can alter the finished colour. A job-site sample or test slab is recommended. **If the colour is added on-site it must be mixed at full revs for 10 minutes and all other loads mixed for the same period time.**

DOSAGE

We have simplified dosing by offering Colourmix in 1m3, 0.2m3 and 0.1m3 bag sizes. The size of the bags changes with each colour, as colours are dosed at either 2% (5kg/1m3), 4% (10kg/1m3) or 8%(20kg/1m3) of the cement content. These dose rates are based on a standard cement content of 20MPA or 265kgs of cement per 1m3.

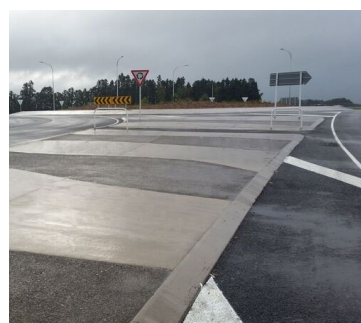
Consistent colour is achieved by using the same sand, cement, aggregates, water-content and mixing time for the colour.

PREPARATION OF THE SUB-GRADE

The sub-grade must be uniformly graded, compacted and moistened but free of standing water. Follow professional standards and practices.

CONCRETE PLACEMENT METHODS

The slump must be consistent from load to load. Additional water to facilitate placement must be kept to a minimum. Do not add water after a portion of the concrete load has been discharged. Do not re-temper concrete that has started to set.



PRODUCT INFORMATION SHEET

CARBON BLACK PIGMENTS

Carbon black and black magic are carbon-based pigments. We highly recommend sealing with a topographical sealer or a solvent based acrylic sealer as the degree of colour change due to weathering is higher than that of other oxides. Not sealing may cause fading and or discolouration as colour may leach out over a period of time.

FINISHING TECHNIQUES

Initial floating should be discontinued as soon as the surface becomes wet. Floating may be resumed after the surface water disappears. The final finish such as a broomed, or imprinted surface may be completed after floating. Maintain consistent finishing techniques and avoid hard-trowelling for the most uniform colour results. Over-trowelling will discolour the concrete. Additional water should not be applied to the concrete surface during finishing.

DISCLAIMER

This product is not intended for public use. It is intended for use by contractors and installers experienced and trained in the use of these products. It is warranted to be of uniform quality within manufacturing tolerances. The manufacturer has no control over the use of this product. Therefore, no warranty, expressed or implied, is or can be made either as to the affects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven to be defective. The end user shall be responsible for determining the product's suitability and assumes all risks and liability. The colours on this colour chart are stock colours and are available, in most cases, for same day shipping. Custom

colours that are matched to a pre-established industry equivalent, are available for same day or next day shipment. Custom colours with no pre-established industry equivalent have a minimum lead time of one week. This colour chart is a representation only and does not guarantee that the final colour will be an exact match. Grey cements, white cements and variations in aggregates will produce different colours. Finished texture, timing of operations, curing or forming methods, release agents, and surface treatments will each affect the finished colour.

As all Permacolour technical data sheets are updated on a regular basis, it is the end users responsibility to obtain the most recent issue.



Honed



Cut and Grout



Trowelled



Rocksalt



Medium
Texture rolled



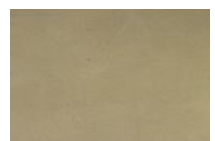
Coarse sponge



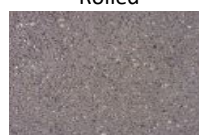
Heavy Texture
Rolled



Imprint



Etched



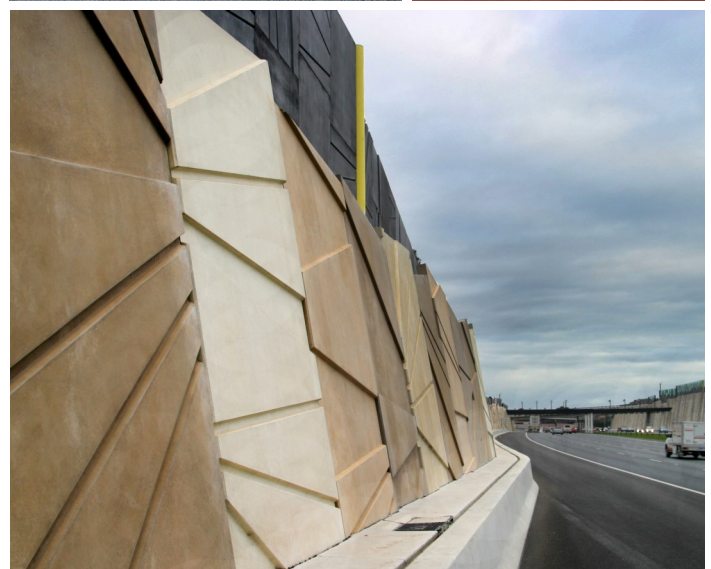
Exposed



Broomed



Wood Float





MANUFACTURERS AND SUPPLIERS OF

BLACK AND COLOURED IRON OXIDES

POWDER
GRANULAR
LIQUID COLOUR

FLOOR COATINGS

OVERLAY
CEMCOTE
COLOUR HARDENER
CHEMICAL STAIN
MICRO TOPPING

WALL COATINGS

CEMPOINT
MICRO COLOUR
FIBRECOTE
DECOCRETE

CONCRETE ADMIXTURES

ACTIVATOR

SEALERS

SOLVENT
EPOXY
URETHANE
WATER BASED
LOW ODOUR
MATTING AGENTS
TINTED SEALERS
DENSIFIERS
SILICONE BASED

STAMPED CONCRETE MATS

SEAMLESS
TIMBER
SLEEPER
STONE & BLOCK PATTERNS
STENCILS

ADDITIVES

WATERPROOFING
PLASTICIZING AGENTS
FIBRES
ACCELERATORS
HARDENERS
EFFLORESCENCE CONTROL AGENTS

ANTISLIP ADDITIVES

GLASS GRIT
SLIP REDUCER

CONCRETE TOOLS

TROWELS
SCREEDS
FLOATS
BROOMS
ROLLERS
CONFORM BOXING
SAFETY NETS
ELECTRIC & PUMP SPRAYERS
GRINDING AND CUTTING DISCS

EQUIPMENT HIRE

GRINDER
VACUUM

SAFETY GEAR

HI VIZ VESTS AND JACKETS
SAFETY BOOTS
GLASSES

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is a private company, 100% New Zealand owned and operated, providing the highest
quality products and service in the decorative concrete industry!*