



# abilox®

## High Performance, UV Resistant, Inorganic Mineral Oxide Powder Colouring Pigments

### Product Overview:

The **abilox**® range of high performance inorganic mineral oxide powder colourants has been specifically developed to provide extremely durable UV resistant integral colouring for all types of concrete, mortar and masonry. These colourants are also used to colour paints, lacquers, sealants and other composite product manufacture.

Supplied as a ready-to-use single component powder admixture, **abilox**® colourants are available in a choice of 50 standard colours (ranging from black, white and 'natural earth' colours through to vibrant hues) which can be used with either off-white or grey cement at any dosage rate - for example at two dosage rates - delivering 200 separate shades for concrete.

**abilox**® oxide colourants can play an important role in assisting architects, building designers, landscape architects, interior designers, and other professional building specifiers to achieve environmentally sustainable development (ESD) goals by providing high quality, highly durable and attractive coloured concrete and rendering mortars without the need for additional surface coating finishes or painting.

### Use With:

**abilox**® mineral oxide colourants are suitable for use with all grades and classes of pre-mixed concrete, including:

- Shotcrete
- Grout mixes
- Polymer concrete

- Terrazzo
- Rendering mortars
- Masonry mortars
- Gypsum/lime plaster materials
- Asphalt

**abilox**® can be used to provide high quality, durable, UV resistant integral colour for:

- Poured/cast insitu concrete (including slabs, walls, footpaths, driveways and cross-overs)
- Precast concrete elements
- Tilt-up panel construction
- Masonry products and pavers
- Artistic elements and architectural features
- Asphalt pavements - in particular for the brightest colour effects with the transparent binder 'Mexphalte C'\* instead of black bitumen.

### Benefits:

**abilox**® mineral oxide colourants deliver a range of benefits, including:

- Absolutely durable, UV resistant integral colour
- Range of 50 standard colouring pigments which at two recommended dose rates give 200 shades for concrete
- Can be custom 'colour-matched' to almost any colour
- Easy-to-use with both off-white and grey cement-bound mixes
- Uniform in colouration and colouring strength from batch to batch and sack to sack
- Clean Air technology - contains no Volatile Organic Compounds (VOCs), solvents or hydrocarbons
- Reduces on-going maintenance requirements - improves ESD by eliminating the need for painting or additional surface coating finishes.

## Usage and Application:

Supplied as ready-to-use, single-component powder admixture in 12.5kg, 25kg or on firm advance order, any other size sacks, **abilox**<sup>®</sup> mineral oxide colourants are typically added last to the freshly made plastic concrete in the transit truck mixing barrel.

The addition of the biodegradable **Concrete-Friendly**<sup>®</sup> **sacks** of **abilox**<sup>®</sup> to the transit truck's barrel should be followed by a thorough remixing of the concrete at the standard barrel 'mixing' speed (approximately 18RPM) for a period of about 10 minutes, thereby ensuring that colourant is evenly distributed throughout the mix, and that the paper sacks have degraded completely.

Please Note:

In pre-mixed concrete mixes containing less than 20mm size coarse aggregate and/or batches with a short mixing duration, the **Concrete-Friendly**<sup>®</sup> **sacks** may not completely disintegrate. In these instances, it is recommended that only 12.5kg bags are used, or alternatively, the bags are opened and the colouring oxide powder is poured directly into the mix.

For all other mortar, shotcrete and/or cement-bound mixes, it is recommended that **abilox**<sup>®</sup> is added to the mix at the selected dosage rate as the last item, followed by further thorough mixing to ensure full distribution of the colour throughout the mix and complete degradation of the paper sacks.

## Dosage Rates:

**abilox**<sup>®</sup> mineral oxide colourants are typically dosed at either 8.3% or 4.15% by weight of total cementitious material content for both grey or off-white cement-bound materials.

## Compatibility:

**abilox**<sup>®</sup> mineral oxide colourants are suitable for use with all grades and classes of pre-mixed concrete, including: shotcrete, grout mixes and polymer concrete, as well as rendering and masonry mortars, gypsum plaster and lime based materials, terrazzo and asphalt. **abilox**<sup>®</sup> is also compatible with all other industry-recognised concrete admixtures.

Please contact Ability Building Chemicals Co for information on specific admixtures, products and mix designs.

## Packaging:

**abilox**<sup>®</sup> mineral oxide colourants are available in either 12.5kg or 25kg **Concrete-Friendly**<sup>®</sup> fully degradable paper sacks.

## Storage:

For maximum shelf life, **abilox**<sup>®</sup> mineral oxide colourants should be stored out of direct sunlight, off the ground, in appropriate, dry conditions. **abilox**<sup>®</sup> has a storage shelf-life of in excess of 24 months when kept in a dry place in tightly closed original packaging.

## Precautions:

**abilox**<sup>®</sup> mineral oxide colourants are non-hazardous substances and are classed as a non-dangerous good, however, it is recommended that the following Personal Protective Equipment (PPE) and precautions are followed when handling the product:

- Wear full overalls, gloves and safety goggles
- Avoid skin and eye contact
- Avoid inhalation if there is a dust potential - use dust mask or NOISH approved respirator in enclosed areas
- Always wash hands before eating, drinking, smoking or using the toilet
- Wash any contaminated clothing or protective equipment prior to storage or reuse.

For further Health and Safety information, please refer to the **abilox**<sup>®</sup> mineral oxide colourants Material Safety Data Sheet (MSDS) which is available from Ability Building Chemical Co.