SAFETY DATA SHEET

Revision 2 Date Issued: 25th January 2013 conforms to Regulation (EC) no 1907/2006

1. Identification of the substance/preparation and company

Product Name: **Isocrete K-Screed Additive,** various sizes and concentrates.

Application: Blend of powdered polymers, pigments, salts & minerals for addition to sand:cement mixes to produce a semi-dry, early drying, high strength screed.
This data sheet applies to all the various sizes and concentrates for K-Additive -
e.g. Size 1, Size 3, concentrate Size 4, concentrate Size 5.

Manufacturer:
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2. Hazards Identification

Potential electrical hazard as carbon black is conductive, airborne dust and particles can penetrate electrical equipment and cause a short circuit.
Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis.

3. Composition/information on constituents

Chemical Name	EINECS No.	CAS No.	% by weight	Symbols and Risk Phrases
Carbon black	215-609-9	1333-86-4	< 10	None
Respirable crystalline silica	-	14808-60-7	trace	Xn; R48:R20

Other ingredients are not classified as hazardous, include sand, pigments and polymers.
See section 16 Additional information, for full text regarding symbols and Risk phrases.

4. First Aid measures

Inhalation : In case of discomfort, remove exposed individuals to fresh air.

Skin contact : Wash with soap and plenty of water.

Eye Contact : Hold eyelids apart and flush with plenty of water to remove the dust.
If irritation persists, seek medical advice.

Ingestion : Wash out mouth with water.

5. Fire-fighting measures

Partially combustible.

Suitable extinguishing media : Water, foam, powder or carbon dioxide.

Un-Suitable extinguishing media : None.

Special exposure hazards : Toxic fumes emitted in a fire, sulphur dioxide, nitrogen oxides and carbon oxides.

Special protective equipment : Self contained breathing apparatus.

6. Accidental release measures

Personal precautions : Use personal protective equipment as detailed in Section 8. Ensure adequate ventilation.

Environmental precautions : Avoid the formation of dust clouds.

Methods for cleaning up : Sweep or preferably vacuum up and collect in suitable containers for disposal in accordance with Section 13. Avoid creating a dust cloud, dampen with water if possible.

7. Handling and storage

Handling : Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of dust cloud. Ensure adequate ventilation. Use personal protective equipment as detailed in Section 8. Handle and open package with care, do not produce a dust cloud.

Storage : Store in a dry, cool, well-ventilated place.

8. Exposure controls/personal protection

Workplace Exposure Limit for Silica, respirable crystalline dust : 0.1mg/m^3 8hr TWA (8 hour time weighted average)
If exposure cannot be controlled to 0.1 mg/m^3 (8 hour TWA) or below by elimination or process or engineering controls, then exposure must be controlled by provision and use of suitable respiratory protective equipment.

Workplace Exposure Limit for Carbon black, Total inhalable dust : 3.5mg/m^3 8h TWA
Short Term Exposure Limit : 7 mg/m^3 (15 minute STEL)

Workplace Exposure Limit for dust, Total inhalable dust : 10mg/m^3 8h TWA
Respirable dust : 4 mg/m^3 8h TWA

Engineering measures to reduce exposure : Local exhaust ventilation is always recommended where dust is likely to be generated from the handling of dry material.

Personal protective equipment :

Respiratory protection : Dust mask if the conditions are dusty.
Eye protection : Goggles or face shield.
Hand protection : Impervious gloves.
Skin and body protection : Protective suit.
Protective measures : Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

9. Physical and chemical properties

Appearance	:	Granules/powder mix	pH	:	Neutral
Odour	:	None	Relative Density	:	~0.7
Boiling Point	:	Not applicable	Water solubility	:	Partial, ~30%
Flashpoint	:	Not applicable	Vapour pressure	:	Not applicable
Explosion limits	:	No data			

10. Stability and reactivity

Material is inert and stable.

Conditions to avoid : Not applicable

Materials to avoid : Not applicable

Hazardous decomposition products : Some formaldehyde formed on heating.

11. Toxicological information

Acute oral toxicity : Ingredient: Carbon black
Oral LD_{50} (rat) : > 8,000 mg/kg

Eye irritation : None known apart from mechanical irritation.

Skin Irritation : Repeated and/or prolonged contact with the skin may cause dryness and/or irritation.

Sensitisation : Based on experience, no adverse effects are expected.

Long term toxicity : Repeated and/or prolonged contact with the skin may cause dryness and/or irritation.

Mutagenicity : No evidence of mutagenicity in any of the ingredients.

Carcinogenicity : Carbon black is not currently classified as carcinogenic in the EC, but is under review. Carbon black has been evaluated from animal tests as possibly carcinogenic (Group 2B) by the IARC (International Agency for Research in Cancer).
No correlating carcinogenic effect has been observed in humans.
The carbon black in this product is pelletised and constitutes a small percentage of the product, which is provided in small packets.

Further information : Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (*IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.*)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk…" (*SCOEL SUM Doc 94-final, June 2003*).

There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits.

Reproductive toxicity (fertility, developmental) : None known.

12. Ecological information

Ecotoxicity : Not expected to be toxic to aquatic or terrestrial plants or animals.

Mobility : Approximately 20% soluble in water.

Persistence and degradability : Resistant to biodegradation.

Bioaccumulative potential : Not applicable.

13. Disposal considerations

Unused Product/waste from cleaning etc. : Landfill. Dispose of in accordance with local and national regulations.

Contaminated packaging : Treat as for unused product.

14. Transport information

Not classified as hazardous for transport.

15. Regulatory information

Classification according to EEC directive: **Hazard Symbols: None**

R-phrases : None

S-phrases
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

Special provisions statement : None.

Hazardous component(s) which must be listed on the label : None.

EC Directives: Dangerous Substances Directive, 67/548/EEC & adaptations.
Dangerous Preparations Directive, 1999/45/EC.
Safety Data Sheets Directive, 91/155/EEC and adaptations.

Statutory Instruments: Chemicals (Hazard Information & Packaging for Supply) Regs 2002.
Control of Substances Hazardous to Health Regs 2002.
Environmental Protection (Duty of Care) Regs. 1991.

Codes of Practice Waste Management. The Duty of Care.
Approved classification and labelling guide (Fifth edition). L131.
The compilation of safety data sheets (Third edition).

Guidance Notes Occupational Exposure Limits EH40
CHIP for Everyone HSG(108)
Chemical Hazard Alert Notice 35 – Respirable Crystalline Silica

16. Other Information

The provision of Safety data sheets now comes under REACH.
This is in addition to the Health and Safety at Work Act 1974.

Users of our products should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).
This data sheet does not replace the obligation of the user to provide their own assessment of workplace risk as required by other Health & Safety legislation.

Maximum exposure limits and Occupational Exposure Standards have been taken from EH40 Occupational Exposure Standards (from HSE Books).

EC Directive relating to the classification, packaging and labelling of dangerous substances and preparations – Classification(s) and Risk (R) phrase(s) referred to in this document:

Xn : Harmful
R48:R20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.

Restrictions on Use

The product is intended for use by appropriately trained applicators.

Electrical Hazard

Equipment exposed to a carbon fibre atmosphere must be provided with suitable dust protection, e.g. an electric motor with an IP54 or IP55 rating. Alternatively, the ingress of carbon fibres should be prevented by purging the equipment with clean air maintained at a slight positive pressure. Good housekeeping with frequent cleaning is recommended.

Training Advice

Applicators need to be trained in:-
The proper use of the application equipment and the mixing to be done in accordance with the technical data sheet and/or separate application/mixing instructions.
Handling and hygiene associated with use of industrial chemicals.
Correct cleaning and disposal methods.

Notes

Beware of cross contamination where different products are in use in the same location.
Take into account the Manual Handling regulations when dealing with the mixed product.

This safety data sheet is based on our present knowledge and experience and is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.