



Material Safety Data Sheet
(in agreement (CE) n° 1907/2006)

ACERO KIT

REF: KAC

1. PRODUCT AND MANUFACTURER DETAILS

Product Name:	ACERO KIT
Company:	CEMENT DESIGN, S.L.
Address:	Avda. Río Guadalquivir, 2, CP 28906 Getafe (Madrid . España)
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Email address	info@cementdesign.eu
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2. COMPOSITION AND INFORMATION

Product Description: Composed of additional resins, selected minerals and Eco Cement

Component A: White powder

3. HAZARDS IDENTIFICATION

Emergency Overview: The product is not classified as a dangerous substance or mixture

Potential Health Effects:

Primary Routes of Exposure: Eye, skin, inhalation and ingestion.

R 36/37/38: Irritates the eyes, the skin and the respiratory tract

R 43: May cause sensitivity by skin contact

Contact with eyes may cause temporary discomfort.

Prolonged or repeated skin contact may cause drying or irritation.

Inhalation: May cause irritation to the nose and respiratory tract.

Ingestion: may cause nausea, vomiting or stomach pain.

White organs / chronic effects: None known.

Conditions aggravated by Exposure: Exposure to this product is unlikely to further worsen or aggravate any pre-existing medical condition.



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4. FIRST AID MEASURES

Eyes: Flush immediately eyes for at least 15 minutes with warm water, keeping eyelids open. If discomfort (irritation) persists, get medical attention.

Skin: Rinse skin for 15 minutes with abundant warm water. Get medical attention if any allergies appear.

Inhalation: Move the affected person to fresh air. If any irritation occurs, get medical attention immediately.

Ingestion: Do not induce vomiting. Get medical attention

5. FIRE FIGHTING MEASURES

Hazards from combustion and decomposition of the product:

In case of fire, carbon monoxide is the combustion gas that determines potential danger.

Fire and Explosion Hazards:

In case of fire, this product doesn't provide additional heating potential. The usual measures have to be taken.

Suitable extinguishing media:

Carbon dioxide, water spray or foam.

Special protective equipment for fire fighting personnel:

To stay in danger area only with independent artificial breathing equipment.

To protect the skin by keeping a safety distance, and to wear suitable protective clothing.

6. INSTRUCTIONS IN CASE OF ACCIDENTAL RELEASE

Evacuation:

Isolate danger area. Keep unnecessary and unprotected personnel away from the danger area.

Containment:

Hold back material with a dike or barrier. Avoid contamination of surface waters and groundwaters.

Cleaning / Personal Protective Equipment:

Wear protective clothing, gloves, goggles and respiratory protection during cleanup. Clean all contaminated equipment and soil thoroughly.

Collection and disposal:

Collect the material and place it in suitable and properly labeled containers. Dispose of it in accordance with existing regulations.

7. HANDLING AND STORAGE

7.1. Handling:

If you handle large quantities of product, try to do it in ventilated areas. Wash after handling thoroughly, especially before eating or drinking. Wash or replace safety clothing and equipment contaminated with the product.



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7.2.Storage:

Store in cool, dry and well-ventilated environment.
Keep containers closed.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure Limit Values

The current professional exposure limits to total dust are set by the Environmental Limit Values of Daily Exposure (VLA / ED) according to RD 374/2001 of 6 April, about health protection and safety of workers against risks related to chemical agents. VLA / ED (8 hours) = 10 mg / m³.

The "List of Occupational Exposure to Chemical Agents of Spain", the INSHT, sets that the concentration of particles (insoluble or poorly soluble) not specified in another way must not exceed the following values:

- " Inhalable fraction, VLA-ED: 10 mg / m³
- " Respirable fraction, VLA-ED: 3 mg / m³.

8.2. Occupational exposure controls

General: Do not eat, drink or smoke while working with the product to avoid contact with skin or mouth.

Upon completion of working with the product, workers must wash themselves, take a shower and they should use moisturizers.

Remove any spotted clothing (clothing, footwear, watches, etc.) and clean them before reuse.

Respiratory Protection: When a person is exposed to levels of dust above the permitted limits, she must use an appropriate mask according to concentration of particles and the standards set in the regulations EN standard.

Eye protection: When the product or fresh pasta is handled, wear protective eyewear certified with EN standard regulations to prevent hazards related to dust or projection of paste into the eyes.

Skin Protection: To use impervious gloves for managing aqueous mixtures, and resistant to abrasive and alkaline substances, boots, long-sleeved protective clothing and additional products for skin care, to protect the skin against prolonged contact with wet paste. Extra care has to be taken to prevent cement go into the boots.

Sometimes, like during horizontal application operations, the use of waterproof pants or knee is necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powder
Colour	White
Odor	Slight
Water solubility	Soluble
pH	8/9



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Density	approx. 1.80 g / cm ³
Percent Volatiles (weight / weight)	80/85
Presentation:	12 kg plastic buckets

Note: The above data are not constructed as a specification.

10. TECHNICAL DATA:

Bulk density:

Powder: 1,300
Paste: 1,950.
Hardened: 1,800

User time:

30 minutes.

Maximum aggregate size:

FINE: <0.1 mm.
THICKNESS: <0.3 mm

Mechanical strength (EN 1015-11):

Compression 7 days: 20N / mm².
Compression 14 days: 22N / mm².
Compression 21 days: 25N / mm².
Compression 28 days:> 33N / mm².
Flex 28 days:> 12N / mm².

Adhesion to concrete:

28 days: 1 N / mm².

Thickness of finished application:

2 mm per layer.

11. STABILITY AND REACTIVITY

Chemical stability:

Under normal use, it does not decompose. Hardens with water.

Hazardous Polymerization:

It will not happen.

Conditions to avoid:

Excessive temperatures.

Incompatibility with other materials:



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None

12. TOXICOLOGICAL INFORMATION

12.1. Acute and Chronic Toxicity:

LD50 (oral, rat):> 5000 mg / kg

LD50 (dermal, rabbit):> 5000 mg / kg

Frequent contact with the product may cause skin and eye irritations, especially after drying. Based on the composition of the product, widespread acute toxic effects are not anticipated.

12.2. Further information:

The product should be handled under appropriate precautions for chemicals.

No adverse health effects are known if used properly.

13. ECOLOGICAL INFORMATION

13.1. Ecotoxicity

The product is not considered hazardous for water (LC50 aquatic toxicity undetermined). Accidental spill of large quantities of product in the water can cause slight rises in pH, which under certain circumstances could represent some toxicity to aquatic life.

13.2. Mobility

The dried product is not volatile but it might produce some dust during handling.

13.3. Persistence and degradability / bioaccumulation potential / Results of PBT / Other effects assessment

Not relevant, since the product is an inorganic material.

The product, once set, is a stable material that fixes its components and makes them insoluble, which prevents any toxicity risk.

14. CONSIDERATIONS RELATED TO DISPOSAL

14.1. Product - unused portions or dust spills

Collecting dust. To label the containers. Their reuse is possible depending of their efficacy period (time indicated in the original packaging) and requirements to avoid exposure to dust. For disposal, to mix with water, to get it set and to dispose of according to the instructions of Section 13.4.

14.2. Fresh product

You must let it set, to avoid discharge it into sewage systems, drainage systems or surface water (eg streams) and to dispose of it as indicated in paragraph 13.4.

14.3. Set product

To dispose of in accordance with local legislation. To avoid its discharge into sewage systems. To remove the hardened product as a residue of concrete. The cured product is an inert, non-hazardous waste. EWC: 10 13 14



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14.4. Packaging waste

To manage the packaging completely empty and according to local legislation. LER 15 01 05 code (composite packaging waste).

15. TRANSPORT INFORMATION

The product is not affected by the international laws about transport of dangerous goods (IMDG, IATA, ADR / RID). NO dangerous goods according to transport regulations.

No need to take any special precaution other than those mentioned in paragraph.

16. REGULATORY INFORMATION

Safety Phrases:

S36 / 37: Wear suitable clothes, gloves and protectors for eye / face

S39: Wear eye and face protection.

17. OTHER INFORMATION

Additional Information:

The information contained in this Safety Data Sheet is offered in good faith and it is based on our present knowledge. It only describes the security measures when handling this product and they are not a guarantee of the properties of the product.

* CEMENT DESIGN reserves the right to update and modify the data about its technical specifications in accordance with current legislation. This information, prescriptions and use are based on Cement Design knowledge about its products, through a proper use and normal conditions.

The user must check the suitability of the product in terms of the use it is going to have, the surface and the real conditions of the application site.

Review: 18/08/2014