

# Material Safety Data Sheet



Printdate: 14.02.2010

Last approval: 15.12.09

Point 1-16

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

**1.1** Description of Product: Hydraulic / pozzolanic dry shake mortar  
Tradename: Contec® Topcoat Si and AL  
Application: Dry shake topping for industrial floors  
Product Nr.:

### 1.2 IDENTIFICATION OF COMPANY

Producer: Contec ApS  
Street: Axel Kiers Vej 30  
Country/City: DK – 8270 Højbjerg  
Contact: Telefon +45 86 721 722  
Telefax +45 86 721 723

## 2. INFORMATION ON COMPONENTS

### 2.1 CHEMICAL DESCRIPTION AND COMPONENT IDENTIFICATION

Hydraulic Binder mixed with silica sand as dry ready mixed mortar:

|                               |           |              |
|-------------------------------|-----------|--------------|
| Tri-Calcium Silicate          | 8-25%     | 12168-85-3   |
| Di-Calcium Silicate           | 4-18%     | 10034-77-2   |
| Tri-Calcium-Aluminate         | 2-5%      | 12042-78-3   |
| Tetra-Calcium-Al-Fe           | 1-5%      | 12068-35-8   |
| Calcium Sulfate               | 1-3%      | Verschiedene |
| Calcium-Oxide                 | 0-8%      | 1305-78-8    |
| Aluminium Oxide               | 1-4%      | 1344-28-1    |
| Cristalline Silica            | 0-1%      | 14808-60-7   |
| Magnesium Oxide               | 0-2%      | 1309-48-4    |
| Chromate                      | 0-0.0007% | Verschiedene |
| Amourphous Silica             | 3-6%      | 7631-86-9    |
| Other Additives               | 1-2%      | 32-5016-94   |
| Iron Oxide                    | 0-2%      | 1309-37-1    |
| Silica sand                   | 25-65%    | 14808-60-7   |
| Granite or bauxite Aggregates | 25-45%    | 14808-60-7   |

### 2.2 HAZARDOUS CONTENTS

Portland Cement

CAS-Nr. 65 997-15-1

Marking: X<sub>i</sub>

EWG-Nr.  
266-043-4

Irritant

Content: 25-45%

R38-41

## 3. HAZARD IDENTIFICATION

**3.1 Hazard marking** X<sub>i</sub> Irritant

**3.2 Special hazard instructions for people** R 38 May cause irritant skin  
R 41 may cause eye damages

## 4. FIRST AID MEASURES

**4.1 General instructions** Not Applicable (NA)

**4.2 Inhalation** Follow doctors order

|     |                                |   |
|-----|--------------------------------|---|
| 4.3 | <b>Skin contact</b>            | Rinse thoroughly with water and evtl. contact doctor  |
| 4.4 | <b>Eye Contact</b>             | Rinse thoroughly with water and contact doctor (S 26) |
| 4.5 | <b>Informations for doctor</b> | NA  |

## 5. Firefighting measures

|     |   |                                  |
|-----|---|----------------------------------|
| 5.1 | <b>Firefighting products</b>                | NA since Product non-combustible |
| 5.2 | <b>Hazardous combustion products</b>        | NA                               |
| 5.3 | <b>General Hazard of gas or by products</b> | NA                               |
| 5.4 | <b>Special protection equipment</b>         | NA                               |

## 6. ACCIDENTAL RELEASE MEASURES

|     |                                     |  |
|-----|-------------------------------------|--|
| 6.1 | <b>Personal protection measures</b> | Avoid skin- and eye contact, avoid generating dust, secure adequate amount of fresh air and use respiratory protection mask. |
| 6.2 | <b>Invironmental protection</b>     | Avoid dry powder and wet mortar to penetrate canals due to blocking risk. The products is uncritical to the invironment.     |
| 6.3 | <b>Land and water spill</b>         | Clean up spilled material  |
| 6.4 | <b>Additional instructions</b>      | Hardens after contact with water after 5 to 8 hours, can be disposed like concrete.  |

## 7. HANDLING AND STORAGE

|     |  |  |
|-----|--|--|
| 7.1 | <b>General</b>                               | Avoid generating dust  |
|     | Directions for safe handling                 | Avoid contact with eyes and skin During work avoid contact with wet material and avoid direct skin contact with protective clothing. |
|     | Directions to fire- and explosive protection | NA   |
| 7.2 | <b>Storage</b>                               |  |
|     | Directions for storage                       | Store dry protected against humidity in a covered area on pallets  |
|     | Joint storing advise                         | NA   |
|     | Extra request to storage                     | NA   |
|     | Classification                               | NA   |

## 8. EXPOSURE CONTROLE - PERSONAL PROTECTION

8.1 Engineering controls NA

### 8.2 Contents with working area limited values

| CAS-Nr.    | Type            | Value for limit | Value | Unit                  |
|------------|-----------------|-----------------|-------|-----------------------|
| 68475-76-3 | Portland Cement | MAK-value       | 5     | mg/m <sup>3</sup> (E) |

Werte nach TRGS 900

### 8.3 Personal protection

|                                     |  |
|-------------------------------------|--|
| <b>Inhaling protection</b>          | Dust may cause nose, throat or lung irritation. Use particle filtering mask or Particle Filter P1-P3                 |
| <b>Hand protection</b>              | Use gloves approved for working with mortar and concrete.<br>As example nitril saturated cotton gloves with CE-Sign. |
| <b>Eye protection</b>               | Wear glasses or safety goggles to prevent contact with eyes.<br>As example Type XZZ 3 oder 4                         |
| <b>Body protection</b>              | NA   |
| <b>Schutz- und Hygienemaßnahmen</b> | Protect skin with lotion before and after work according to skin protection plan ZH 1/708                            |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1

|                |                 |
|----------------|-----------------|
| Physical state | Solid<br>Powder |
| Colour         | Grey            |
| Odor           | None            |

### 9.2 Safety Data

|                         | Value             | Value             | Method<br>(67/548/EEC) |
|-------------------------|-------------------|-------------------|------------------------|
| Boiling Point           | ≥ 1.000           | °C                | NA                     |
| Flame point             |                   | °C                | NA                     |
| Ignition Temperature    |                   | °C                | NA                     |
| Self ignite temperature |                   | °C                | NA                     |
| Explosive hazard        |                   |                   | NA                     |
| Explosion limits        |                   |                   | NA                     |
| Vapor pressure          |                   | hpa               | NA                     |
| Density                 | 2,7 - 2,8         | g/cm <sup>3</sup> | A.3 1.4.2              |
| Solubility in water     | bis 1,5<br>T=20°C | g/l               | A.6 1.4.2              |
| pH-Value                | 11,5 – 12,5       |                   |                        |
| Solvent content         |                   | %                 | NA                     |

### 9.3 Further informations

NA

## 10. STABILITY AND REACTIVITY

|                                    |          |
|------------------------------------|----------|
| <b>10.1 Conditions to avoid</b>    | Humidity |
| <b>10.2 Products to avoid</b>      | NA       |
| <b>10.3 Hazardous products</b>     | NA       |
| <b>10.4 Further specifications</b> | NA       |

## 11. TOXICOLOGICAL INFORMATIONS

### 11.1 Toxicological tests

Acute Toxicity NA

Spezifik  
Symptoms NA

Skin irritating behaviour

|                             |   |
|-----------------------------|---|
| Sensibilisation             | NA  |
| Further specifications      | NA  |
| <b>Practical experience</b> |   |
| Classifying                 |   |
| 11.2 Observations           | NA  |
| Further Observations        | Product mixed with water can by longer contact with skin irritate and create skin damages. Mechanical abrasion of skin kann increase this damage. |
| 11.3 General observations   | NA  |

|  |  |
|--|--|
| <b>12. ECOLOGICAL INFORMATION</b>      |  |
| 12.1 Specifications on Elimination     | NA as Mineral product  |
| 12.2 Behaviour to Invironment          | NA as Mineral product  |
| 12.3 Ecological influence              | Only by accidental release of extremely large amounts mixed with water an increased Ph-value is possible. lich |
| 12.4 Further Ecological Specifications | No available informations  |

|   |  |
|---|--|
| <b>13. DISPOSAL CONSIDERATIONS</b>                      |  |
| <b>13.1 Product (unused Restamount)</b>                 |  |
| Recommendation  | Dry collected reusable   |
| EWC-Wastekey-Nr.  | NA   |
| <b>13.2 Product (after mixing with water, hardened)</b> |  |
| Recommendation  | mixed with water treat as hardened concrete  |
| EWC-Wastekey-Nr   | 170101 Concrete (simplified documentation at more than 5 ton per year and producer |
| <b>13.3 Uncleaned packings</b>                          |  |
| recommendations   | When receiving used bags removal of solid rest material possible.                  |
| Cleaning chemical                                       | NA   |

**14. REQUIRED TRANSPORT INFORMATION**

**14.1 Landtransport**  
Informations

The product is a no harm product without need of marking for any landtransport.

**14.1 Seatransport**  
Informations

The product is a no harm product without need of marking for any seatransport.

**15. REGULATORY INFORMATION**

**15.1 Classification**

Marking as of regulation 829

X<sub>i</sub>

irritating

R-Numbers

R 38

Irritating skin

R 41

Risk of severe eye damages

S-Numbers

S 2

Not allowed in the hand of kids

S 22

Avoid inhaling dust

S 24

Avoid contact with skin

S 25

Avoid eye contact

S 26

In case of eye contact rinse thoroughly with water and contact doctor

S 36

Carry appropriate protective clothes when working

S 37

Carry appropriate gloves

**15.2 National classifications**

Notification to working limitations NA

Accidental rules NA

Classification after VbF NA

Technical specification Nr. 3.1.5 air

Wasser damaging classification WGK WGK 1 (limited waterdamaging)

**16. FURTHER INFORMATIONS**

MSDS revised by: CONTEC ApS  
Axel Kiers Vej 30  
DK – 8270 Højbjerg  
Tel.: +45 86 721 722, Fax: ?45 86 721 723

Contact person: Bo Serwin E-Mail: [info@contec-aps.dk](mailto:info@contec-aps.dk)