

# SAFETY SHEET No. 40

dry mortar mixtures for the rehabilitation and protection of concrete from the **BetaFORM® S** series

Printed on:

Issued: 1<sup>st</sup> May 2004

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Revision: 20<sup>th</sup> March 2008

Version: 0.7

## 1. Identification of material / substance and the company / enterprise

- 1.1 Business name for the substance: **BetaFORM® S. (including types S01, S02, S05, S07 and S09) according to PN 72 2440**  
CAS number, ES number (EINECS): **Not assigned**  
Other names for the substance: **Not indicated**
- 1.2 Recommended use: **Construction material – dry mortar mixture for the rehabilitation and protection of concrete**
- 1.3 Identification of the producer:  
Name or business name: **STOMIX, spol. s r.o.**  
Place of business or registered office: **790 65 Žulová 178, CZ**  
Identification number: **Company ID number (IČO): 48400874**  
Telephone: **+420 584 484 111**  
Fax: **+420 584 484 112**  
E-mail: **zichova@stomix.cz**  
Emergency telephone number: **+420 584 484 131**
- 1.4 Telephone number for emergencies: **+420 224 919 293, +420 224 915 402, +420 224 914 571**  
**Toxicological information centre, Na Bojišti 1, 128 08 Prague 2, CZ**

## 2. Risk identification

- 2.1. Overall classification of material or substance: **The product is not classified as an irritant pursuant to Act No. 356/2003 Coll., on chemical materials and chemical substances and the valid EU legislation.**
- 2.2. The most serious and harmful effects to the health of a person. Eye irritation, respiratory difficulties and skin irritation.
- 2.3. The most serious harmful effects to the environment when using the material: **Undetected.**
- 2.4. A warning symbol shows the risk Xi. **The classification is stated in Chapter 15.**

## 3. Composition / information about components

The product contains the following hazardous materials:

Chemical name	Content in (%)	CAS number	Warning symbol for the risk
<b>Portland cement clinker</b>	<b>30-42</b>	<b>65997-15-1</b> <b>266-43-4</b>	<b>Xi</b> <b>R 36/37/38-43,</b> <b>S 2-22-26-36/37/39</b>

## 4. First aid instructions

- 4.1 General instructions: **In the case of health problems or in the case of any problems, contact a doctor.**
- 4.2 When breathing: **Ensure a supply of fresh air, if problems continue then contact a doctor.**
- 4.3 In the case of contact with skin: **Remove any contaminated clothes, wash the skin with soap and water and treat the affected area with a suitable reparation cream.**
- 4.4 If affecting the eyes: **Rinse the eyes with clean water for a minimum of 15 minutes and then contact a doctor.**
- 4.5 In the case of ingestion: **Drink a minimum of half a litre of drinking water, do not invoke vomiting and call for medical assistance.**
- Further data: **If any signs of irritation, due to contact with the product, will worsen, immediately call for medical assistance.**

## 5. Measures during the liquidation of fire

- 5.1 Recommended extinguishing agents: **Water fog, splitting of water, foam and powder chemicals.**
- 5.2 Not-recommended extinguishing agents: **Permanent water stream**
- 5.3 Special risk: **Undetected.**
- 5.4 Special protective means for extinguishers: **Protective clothes.**
- 5.5 Further data: **The product is fire proof.**

## 6. Measures in the case of accidental escape

- 6.1 Safety precautions for the protection of persons: **Contact with the eyes must be prevented.**
- 6.2 Safety precautions for the protection of the environment: **Uncontrolled escapes into sewage pipes must be prevented.**
- 6.3 Recommended methods for cleaning and removing: **Mechanical collection.**
- 6.4 Further data: **After contact with water and hardening, it is possible to liquidate as the other waste (catalogue no 170101 - Concrete).**

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## 7. Handling and storage

- 7.1 Handling instructions: **Handling of product according to enterprise standard PN 72 2440 and technical manuals no. 40-1, 40-2, 40-3, 40-4.**  
**Special measures – none.**
- 7.2 Storage instructions: **Store in dry places and protect against moisture and water.**  
**Special requirements – none.**

## 8. Restriction of exposure / personal protective means

- 8.1 Limit values: **Permitted exposure limit (concentration) for cement (PEL<sub>c</sub>) - 10 mg/m<sup>3</sup>..**
- 8.2 Technical measures: **Ensure complete ventilation of the workplace.**
- 8.3 Personal protective means:  
Protection of respiratory organs: **Not necessary, if PEL<sub>c</sub> is kept.**  
Protection of eyes: **Protective glasses**  
Protection of hands: **Protective gloves**  
Protection of skin: **Protective clothes**
- 8.4 Further data: **Personal working means must be kept in a usable status and damaged means must be immediately replaced. It is not permitted to eat, drink or smoke when working. Hands must be washed with soap and water and treated with a suitable repair cream after working.**
- 8.5 Restriction of exposure to the environment: **Data is not available.**

## 9. Physical and chemical properties

- Status of the matter: **Solid material - powder**
- Colour: **Grey**
- Odour (scent): **Without odour**
- pH value: **Only after contact with water pH 11 - 13**
- Temperature (range of temperature) melting (°C): **Data is not available**
- Temperature (range of temperature) for boiling (°C): **Data is not available**
- Inflammation point °C: **Data is not available**
- Flammability: **Fireproof**
- Pyrophoricity: **Undetermined**
- Flammability limits: upper limit (% vol.): **Data is not available**  
lower limit (% vol): **Data is not available**
- Oxidation properties: **Data is not available**
- Vapour tension (at °C): **Data is not available**
- Density (at 20°C): **2400 - 2600 kg/m<sup>3</sup>**
- solubility (at 20°C):  
- in water **0,8-1,0 g/l**  
in fats (including oil specification) **Data is not available**
- Dividing n-octanol/water coefficient: **Data is not available**
- Viscosity: **Data is not available**
- Vapour density: **Data is not available**
- Evaporation speed: **Data is not available**
- Further data: **Data taken from the producers report**

## 10. Stability and reactivity

- 10.1 Conditions under which the material/substance is stable: **Data is not available**
- 10.2 Conditions which must be prevented: **Data is not available**
- 10.3 The product must not be in contact with the following substances and materials:  
**Data is not available**
- 10.4 Hazardous degradation products: **Data is not available**

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## 11. Toxicological information

Acute toxicity:

LD<sub>50</sub> oral, rat (mg. kg<sup>-1</sup>):

Data is not available

LD<sub>50</sub> dermal, rat or rabbit (mg. kg<sup>-1</sup>):

Data is not available

LD<sub>50</sub> inhalation, rat, for aerosols or particles (mg. kg<sup>-1</sup>):

Data is not available

LC<sub>50</sub> inhalation, rat, pro for gases and vapours (mg. kg<sup>-1</sup>):

Data is not available

Sub-chronic – chronic toxicity

Data is not available

Sensitivity:

Risk of origination of sensitivity for highly sensitive persons in the case of long term contact with the skin.

Carcinogenicity:

Data is not available

Mutagenesis:

Data is not available

Toxicity for reproduction

Data is not available

Specific effect on human beings:

The product has the character of an irritation substance in the form of dust and after contact with water it can irritate the eyes, the respiratory organs and the skin.

Other information:

Not indicated

## 12. Ecological information

Acute toxicity:

LC<sub>50</sub>, 96 hour, fish (mg. l<sup>-1</sup>):

Data is not available

EC<sub>50</sub>, 48 hours, daphnia (mg. l<sup>-1</sup>):

Data is not available

IC<sub>50</sub>, 72 hours, algae (mg. l<sup>-1</sup>):

Data is not available

Mobility of the material or components of the substance:

Data is not available

Persistence and decomposability:

Data is not available

Bio-accumulating potential:

Data is not available

Toxicity for other environments:

Data is not available

CHSK:

Data is not available

BSK<sub>5</sub>:

Data is not available

Further data:

Ecotoxic effects may be reflected only in the case of the escape of large volumes and the consequent solution of the substance in water – an increase of pH values.

## 13. Instructions for removing

13.1 Methods of removing the material/substance:

After catchment in a dry condition, the product can be used again. In the case of hardening, liquidate as other waste (170101 - Concrete).

13.2 Methods of liquidation of contaminated packages:

Liquidate as the other waste (150101 – Paper and cardboard packages).

13.3 Legal regulations:

Act No. 185/2001 Coll., on waste, as amended.

13.4 Further data:

Not indicated.

## 14. Transport information

Inland transport, air, water transport, marine transport: Not indicated.

Notes:

Not indicated.

Further data: Pursuant to Section § 22 par. 1 of Act No. 111/1994 Coll., on road transport, the product is not hazardous item and is not the subject of European Agreement on road transport of hazardous items (ADR) or provisions of the Order for international railway transport of hazardous goods (RID).

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## 15. Information regarding regulations

Legal regulations related to the material/substance: **Act No. 356/2003 Coll., on chemical materials and chemical substances and on the change of some acts, as amended by later regulations. Prepared in accordance with EC Regulation 1907/2006.**

<b>Risk symbol</b> Xi  <b>irritant</b>	<b>The product is classified as an irritant, contains cement.</b>  R phrases: <b>R 36/37/38 Irritant to eyes, respiratory system and skin.</b> <b>R43 may cause sensitization through skin contact</b> S phrases: <b>S 2 Keep out of the reach of children</b> <b>S 22 Do not inhale dust</b> <b>S 26 In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice</b> <b>S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection</b>
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## 16. Other information

- 16.1 Declaration: **The safety sheet contains the data necessary for ensuring safety and protection of health during work and the protection of the environment. The aforementioned data corresponds to the existing status of knowledge and experience and is in accordance with the valid legal regulations. The data cannot be considered as a guarantee for the suitability and usability of the product for specific applications. Information regarding product properties and use can be found in the technical product sheet. This revision cancels the validity of all previous safety sheet revisions.**
- Changes during revision: **Correction to point 15 - Act No. 356/2003 Coll., on chemical materials and chemical substances, as amended ES Regulation 1907/2006**  
**Changed - structure of sheet according to REACH**
- 16.2 Relevant R phrases: **R 36/37/38 - Irritates the eyes, the respiratory organs and the skin.**  
**R 43 - Can cause sensitization through skin contact**