

## Material Safety Data Sheet

It is prepared pursuant to 1907/2006/EC and Regulation on Information Forms on Harmful Substances and Mixtures (R.G. 13.12.2014-29204) .

Issue Date:19.06.2020  
SDS Code:RM-CX-007

Control Date:-

### 1 Identification of Material / Mixture and Company / Distributor

#### 1.1. Identification of Material / Mixture

Trade Name: CERMIREP R4 T

#### 1.2. Specified or recommended usage of substance/admixture

Polymer modified, one-component, cement based repair mortar

#### 1.3. Details of the supplier of the MSDS

Company name: Koramic Yapı Kimyasalları  
Bozüyük OSB 10.Cad No : 3 Bozüyük/BİLECİK  
Tel: +90 228 314 63 00  
Fax: +90 228 314 63 05  
SDS contact person:yasemin.karel@koramic.com.tr

1.4. Emergency Telephone: +90 228 314 63 00(On weekdays, during working hours)

NATIONAL POISON INFORMATION CENTER: 114

### 2. Hazard Identification

#### 2.1. Classification of the substance or mixture

Product definition : Mixture

Classification according to Directive 1999/45/EC [DPD] The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R41, R37/38

Human health hazards : Risk of serious damage to eyes. Irritating to respiratory system and skin.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms

#### 2.2. Label Elements

Hazard symbol or symbols:



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Indication of danger : Irritant  
Risk phrases : R41- Risk of serious damage to eyes.  
R37/38- Irritating to respiratory system and skin.  
Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S39- Wear eye/face protection.

Supplemental label elements : Not applicable.

### 2.3. Other Hazards

Portland cement clinker may cause an allergic reaction in some people due to include water soluble Cr (VI) in the dust.

## 3 Information on Composition / Contents

### 3.1. Materials

Not relevant information.

### 3.2. Mixtures

Material	CAS Number	Concentration (%)	H statements
Cement	65997-15-1	>30%	H 315 Causes skin irritation. H 317 May cause an allergic skin reaction. H 318 Causes serious eye damage. H 335 May cause respiratory irritation.
Calcium carbonate	471-34-1	20-40	This material has not been classified as dangerous according to Directive 67/548 / EEC, 1272/2008 / EC and local regulations.
Calcium Sulphate (Hemihydrate)	10034-76-1	0-2	This material has not been classified as dangerous according to Directive 67/548 / EEC, 1272/2008 / EC and local regulations.
Quartz (SiO <sub>2</sub> )	14808-60-7	0-20	This material has not been classified as dangerous according to Directive 67/548 / EEC, 1272/2008 / EC and local regulations.

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### 4 First Aid Measures

#### 4.1. Identification of First Aid Measures:

**General information:** Remove your contaminated clothes and wash them before reusing.

**After breathing:** Take out the victim to fresh air and hold it in a comfortable position for easy breathing. If coughing and other symptoms increase, consult medical attention. Long-lasting respirable crystallized silica may induce the formation of silicosis disease when exposed to exposure values exceeding the limits allowed.

**After skin contact:** Wash with cold water and soap with neutral pH or a mild detergent. Request medical treatment when exposed to wet cement, cement mixes, fresh cement products, liquid or dry cement for a long time. If skin irritation is concerned: Medical assistance / intervention is required.

**After eye contact:** Continue to rinse for at least 15 minutes with eyelids open to remove all particles. Wash eyes thoroughly with water. Remove the contact lenses, if easy to remove and available. Keep rinsing. If eye irritation persists: Medical assistance / care is required.

**If swallowing:** Do not make the exposed person vomit. If he/she is conscious, make him/her drink plenty of water and call a doctor immediately. If the symptoms continue, call a doctor.

**First-Aid self-protection:** Protect your skin and eyes.

#### 4.2 Most important symptoms and effects, both acute and delayed

**Eye contact** : Severely irritating to eyes. Risk of serious damage to eyes.

**Inhalation** : Irritating to respiratory system.

**Ingestion** : Irritating to mouth, throat and stomach.

**Skin contact** : Irritating to skin.

**Eye contact** : Severely irritating to eyes. Risk of serious damage to eyes.

**Eye contact** : Adverse symptoms may include the following: pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following: respiratory tract irritation coughing

**Skin contact** : Adverse symptoms may include the following: irritation redness

**Ingestion** : No specific data.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treated symptomatically.

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### 5 Fire Fighting Measures

#### 5.1. Extinguishing media:

**Suitable extinguishing media** : Water, CO<sub>2</sub>, KKT, Sand, Chemical Foam Extinguisher

**Unsuitable extinguishing media** : Intensive water currents

#### 5.2. Special hazards arising from the substance or mixture

The decomposition of silicon dioxide (SiO<sub>2</sub>) can produce toxic fumes of metal oxides.  
It may emit toxic and corrosive fumes.

#### 5.3. Advice for firefighters

Use protective equipment commonly used in the event of a fire (protective gloves / protective clothing / eye protection / face protection materials, etc.).

### 6 Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation.

Avoid actions that will cause dust to form.

Avoid breathing dust and contacting with skin. Use personal protective equipment.

#### 6.2. Environmental precautions

Avoid mixing with drainage systems, soil or water.

Notify the competent authorities in case of water or sewerage pollution.

#### 6.3. Methods and materials for containment and cleaning

Collect the dry material mechanically and store in a suitable (vacuum) container.

Prevent dust formation.

If the spreading product is wet, wait until it freezes.

Avoid breathing dust and contacting with skin. Keep children away during cleaning.

Use personal protective equipment.

#### 6.4 References to other sections

Section to be reviewed: 13

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### 7 Handling and Storage

#### 7.1. Precautions for safe handling

Make sure that the necessary ventilation is done. If ventilation is inadequate, use respiratory protection. Avoid contact with skin, eyes or clothing. Use protective gloves / protective clothing / eye protection / face protective materials. Since the bags are heavy, it can cause a variety of physical aches during back and forth movement (back, waist, spine, arms and legs pain and irritation). Do not eat, drink, do not smoke while using the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry, cool, well-ventilated place.

##### Storage:

Storage temperature

:Environmental

Storage life

:Stable under normal conditions.

Incompatible materials

:Strong acids, acid chlorides, acid anhydrides, chloroformates should be avoided. Avoid contact with aluminum, copper and their alloys.

#### 7.3. Specific final uses: Not specified.

### 8 Exposure controls / personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational Exposure Limits

Name of Material	CAS No	Long-term TWA(8 hours) (mg/m <sup>3</sup> )	Short-term STEL(15 mins) (mg/m <sup>3</sup> )	Source
Portland Cement	65997-15-1	10	15(total) 5 (respirable)	ACGIH OSHA
Calcium carbonate (Limestone)	1317-65-13	-	15	OSHA
Quartz (SiO <sub>2</sub> )	14808-60-7	0,1	- -	ACGIH
Calcium Sulphate (Hemihydrate)	10034-76-1	10	-	ACGIH

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide aspiration in powder form.

Technical protective measures always take precedence over personal protective equipment.

See Chapter 7.

#### 8.2.2. Personal Protective Equipment

**Ventilation:** Ensure that the area is always well ventilated.

**Protect the respiratory system:** Avoid any action that may cause dust to form in the air. Cement dust may cause inflammation on the outer surfaces of the tissues inside the nose. Use CE certified respirators / masks.

**Protection of skin:** The product can cause allergic dermatitis in people with high sensitivity. (The product can contain a +6 valent chromium salt and its compounds or some toxic or dangerous chemical forms of other metals in the amount of cement work in its composition (less than 0,05%).) To protect the skin from prolonged contact, use gloves which are not permeable, resistant to abrasion and alkali reactions.

**Eye protection:** Use goggles to protect the product from dusting or splashing with water

## 9 Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:** Dust can be in various colors depending on the product's characteristics.

**Odor:** Odorless

**Physical status:** Solid

**Vapor pressure:** Not applicable.

**Relative Density:** 1.700-1.800 kg / m<sup>3</sup>

**PH:** Not applicable.

**Boiling point:** Not applicable.

**Melting point:** Not applicable.

## 10 Stability and Reaction

**10.1. Reactivity:** No data available.

**10.2. Chemical stability:** It is stable under normal conditions.

**10.3. Possibility of hazardous reactions:** No dangerous reaction is known under normal conditions of use.

**10.4. Conditions to avoid:** Avoid contact with humidity.

**10.5 Incompatible materials:** No data available

**10.6. Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### 11 Toxicological Information

The information given is based on the data on components and on similar toxicological products.

#### 11.1 Information on toxicological ethics

Total dust does not contain asbestos and contains less than 1% silica (10mg / m<sup>3</sup>)

OSHA PEL (Transition): Total Dust - 50 million particles / ft<sup>3</sup>

OSHA PEL (Result): Total Dust - 10 mg / m<sup>3</sup>

Respirable dust - 5 mg / m<sup>3</sup>

#### 11.2 Acute toxicity

Portland Cement (CAS:65997-15-1)

LD50 : No data

IDLHs : 5000 mg/m<sup>3</sup>

#### Calciumcarbonate-CaCO<sub>3</sub> (CAS:471-34-1)

Effect tested: LD50

Route of exposure: Oral

Method: OECD 420

Value:>2000mg/kgbw

Animal test species:Rat

Effect tested: LD50

Route of exposure: Dermal

Method: OECD 402

Value:>2000mg/kgbw

Animal test species:Rat

Effect tested: LC50

Route of exposure: Inhalation.

Method: OECD 403

Duration: 4 hour(s)

Value: > 3 mg/l

Animal test species: Rat

#### 11.3 Abrasion and irritation effect (Corrosivity and irritation)

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### Portland Cement (CAS:65997-15-1)

It is irritant on the membranes of the skin and mucosa.  
Serious irritant in eyes.

### Calciumcarbonate-CaCO<sub>3</sub> (CAS:471-34-1)

The product is not classified as irritant or corrosive to skin

### 11.4 Skin corrosion / irritation and eye damage / irritation:

Causes skin irritation.  
It causes allergic skin reactions.  
Causes serious eye damage.

### 11.5 CMR effects (Carcinogenicity) :

The product contains high Portland cement.  
Portland cement and other components aren't listed as carcinogens by NTP, OSHA or IARC.  
However, substances listed by these organizations as carcinogens may contain trace amounts.

### 11.6 CMR effects (Mutagenicity and Toxicity for Reproduction):

**The reason for the lack of classification:** Definite but not enough for classification.

### 11.7 Other Toxicological Effects:

Allergic Effects	No data
Sensitiveness	Sensitivity is not expected when used in the shelf life.
Developmental toxicity (Teratogenicity)	No
Fertility	No
Toxicokinetics	No data

### 11.8 STOT- Single / repeated exposures

STOT-single exposure	Eyes, skin, respiratory system
STOT-repeated exposure	Eyes, skin, respiratory system

### 11.9 Symptoms related to physical, chemical and toxicological properties:

In case of respiration	If small amounts of dust are not harmful but are consumed in large quantities, adverse effects are possible.
In case of skin contact	Irritating to skin. Mortar and skin contact should be minimized. The product with its dry state may cause more serious skin effects such as thickening and crackling of the skin. Prolonged exposure (alkaline) can cause serious skin damage in the form of chemical burns.



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In case of eye contact	Risk of serious damage to eyes. Exposure to dust in the air can cause immediate or delayed irritation or inflammation. In high quantities, eye contact with dry powder or wet product may cause eye irritation, chemical burns or effects ranging from blindness.
In case of swallowing	If swallowed, it may cause disease. Portland cement may contain trace amounts of free crystalline silica. Prolonged exposure to respirable free silica can cause other lung conditions to aggravate and lead to silicosis, disability and fatal lung disease. Exposure to Portland cement can cause nasal, throat and upper respiratory system irritated by moist mucous membranes.

### 11. 10 Additional Toxicological Information:

Toxicological classifications are based on existing knowledge and information. Specific health effects are considered by considering information in section 3.

### 12 Ecological Information

12.1. Toxicity	No appropriate data
12.2. Persistence and degradability	No appropriate data.
12.3. Bioaccumulative potential	No appropriate data.
12.4. Mobility in soil	No appropriate data..
12.5. Results of PBT and	

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects	No appropriate data.
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### 13 Disposal Information

**13.1. Waste treatment methods:** Wastes should be disposed of in accordance with national legislation. Make sure the bags are completely empty. Deliver empty bags to recycling companies that accept waste paper.

**13.2 Additional Information:** If this product has been altered or contaminated with other dangerous substances, waste analysis may be necessary to determine the appropriate method for disposal.

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### 14 Transportation Information

14.1 UN number :Not relevant

14.2 Suitable UN transportation name :Not relevant

14.3 Transportation hazardous classification(s) :Not relevant

14.4 Group of packaging :Not relevant

14.5 Environmental damages :Not relevant

14.6 Special precautions for users :Not relevant

14.7 MARPOL 73/78 appendix II and bulk transportation according to IBC code :Not applicable

### 15 Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet has been prepared / approved by accredited and authorized personnel in accordance with the requirements of the Regulation on Safety Data Sheets on Hazardous Substances and Mixtures (13/12 / 2014-29204). The Regulation on Classification, Labeling and Packing of the Articles and Mixtures dated 11/12/2013 has been taken into consideration in the classification.

### 16 Other Information

The information contained in this Safety Data Sheet is provided only for the latest information and findings. However, neither do they constitute a warranty nor do they constitute a contractual legal relationship. The information provided is for the safe storage, handling, transport and disposal of the product mentioned in this safety data sheet. This information is not used for other products.

#### 16.1. Safety Data Sheet Prepared by:

Prepared by: Yasemin KAREL  
Certificate no: NBC/01.146.05  
Certificate validity date : 17.01.2021

#### 16.2. Relevant Harmfulness and Precautionary Statements

H 315 Causes skin irritation.

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H 317 May cause an allergic skin reaction.  
H 318 Causes serious eye damage.  
H 335 May cause respiratory irritation.

### Full text of classifications [CLP/GHS]

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1  
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2  
STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3

Full text of abbreviated R phrases : R41- Risk of serious damage to eyes.  
R37/38- Irritating to respiratory system and skin.

Full text of classifications : Xi - Irritant [DSD/DPD]

## 16.3. Abbreviations

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienist
<b>ADR</b>	European Agreement on Carriage of Dangerous Goods by Road
<b>CLP</b>	Regulation on the Classification, Labeling and Packing of Chemicals
<b>DSD</b>	Dangerous Goods Regulation (EC)
<b>IARC</b>	International Agency for Cancer Research
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Authority
<b>IDLHs</b>	Dangerous for Life or Health Concentrations
<b>IMDG</b>	International Maritime Rules for Dangerous Goods
<b>mg/m<sup>3</sup></b>	The amount in milligrams of the substance found in 1 m <sup>3</sup> of air at 20 ° C and 101.3 KPa. (760 mm mercury pressure).
<b>NIOSH</b>	National Institute for Occupational Health and Safety
<b>NTP</b>	National Toxicology Program (USA)
<b>OSHA</b>	Occupational Safety and Health Administration (USA)
<b>PEL</b>	Permissible Exposure Limit
<b>ppm</b>	Amount in milliliters of 1 m <sup>3</sup> of airborne

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<b>RID</b>	material (ml / m3) International Regulations for the Transport of Dangerous Goods by Rail
<b>SEA</b>	Regulation (TR) on Classification, Labeling and Packing of the Articles and Mixtures No. 28848 (Muk.) Dated 11 December 2013
<b>STEL</b>	Unless otherwise specified, the exposure upper limit value that should not be exceeded for a period of 15 minutes.
<b>TWA</b>	Time-weighted average measured or calculated for the 8-hour reference time