

# TERRACAULK 30

## Product codes

TCK, 01, Packaging listed overleaf

## Description

Terracaulk 30 is a Portland cement powder mix designed for easy mixing and placing in shafts and tunnel areas. The mixed product may be hand applied into caulking grooves within segmental concrete linings. Terracaulk 30 may also be used to cap off bolthole pockets. The mix design for Terracaulk 30 contains a blend of Portland cements, pulverised fuel ash, high quality graded silica sands and additives to assist with mixing, placing and hardening. Terracaulk 30, once applied is easily finished to the required profile. The product is chloride free and is safe to use in contact with steel elements.

**Uses include:** Caulking of pre-cast concrete segmental tunnel linings.  
Filling of bolthole entry points to protect steel bolt heads.

## Typical Mortar Properties at 20°C

### Compressive Strength

1 Hour	1 Day	7 Days	28 Days
0.5N/mm <sup>2</sup>	7N/mm <sup>2</sup>	14N/mm <sup>2</sup>	23N/mm <sup>2</sup>

**Usable Life:** Approximately 20minutes depending on specific use.

**Density:** 1860 kg/m<sup>3</sup>

## Specification Outline

Caulking applied to segmental caulking grooves shall be carried out using Terracaulk 30 as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN 9001:2008 and is assessed by UK CARES LTD.

## Standards

Terracaulk 30 has been tested in accordance with the appropriate parts of EN 12390.

## Instructions For Use

### Preparation

Contact surfaces should be sound and clean. Slight dampening of the surfaces will assist adhesion.

### Priming

No priming is necessary other than the slight dampening of the contact surfaces. Any standing water must be removed.

### Mixing

Terracaulk 30 is supplied in 25kg bags. The water requirement to achieve a good caulking mortar is 4.75 litres to 5.00 litres per 25kg bag. Pour the required quantity of water into a suitable mixing vessel where hand mixing may be carried out. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing may be used if required using a slow speed high torque drill with a Mortar Stirrer or a forced action mixer such as the Creteangle

### Placing

Ensure contact surfaces are clean from dust and are dampened prior to placing the mixed mortar.

### Curing

No specific curing is required. Placed material should be protected from drying out too quickly.

## Precautions

### Health and Safety

Terracaulk 30 is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.

Full health and safety data are given in Product Safety Data Sheet.



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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# TERRACAULK 30

## Precautions

### Fire

Terracaulk 30 is non-flammable

### Yield

Terracaulk 30 is packed in 25kg plastic bags. The yield obtained from each bag mixed with 4.75 litres of water is approximately 16 litres of mixed material.

### Storage And Shelf Life

Terracaulk 30 is packaged in 25kg plastic bags which should be stored under cover and protected from rain and frost. The product will have a shelf life of 3 months when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures and high humidity may reduce the shelf life.

### Packaging And Ordering

Terracaulk 30 is supplied in:

25kg plastic bags                      Product Code TCK 01

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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Grouts



Structural Support  
Mortars



Concrete Repair  
Products



Construction  
Adhesives



Resin Et  
Cementitious  
Anchors



Highway  
Products



Coatings



Waterproofing



Ground  
Engineering

## SAFETY DATA SHEET TERRACAULK (ALL GRADES)

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME TERRACAULK (ALL GRADES)

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PRODUCT NO. TCK 01 (SDS 162)

CONTAINER SIZE 25kg Bag

### 2 HAZARDS IDENTIFICATION

Irritating to skin. Risk of serious damage to eyes.

CLASSIFICATION (1999/45) Xi;R38, R41.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
PORTLAND CEMENT	266-043-4	65997-15-1	30-60%	Xi;R38,R41.
SILICA SAND	238-878-4	14808-60-7	30-60%	-
SODIUM SILICATE		1344-09-8	1-5%	Xi;R36/37/38.

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

Remove affected person from source of contamination.

#### NOTES TO THE PHYSICIAN

If ingested give milk or calcium gluconate by mouth.

#### INHALATION

Unlikely route of exposure as the product does not contain volatile substances.

#### INGESTION

Immediately rinse mouth and drink plenty of water (200-300 ml). Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

#### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes.

#### EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Immediately flush with plenty of water or eyewash solution for up to 10 minutes. Continue to rinse for at least 15 minutes and get medical attention.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

The product is non-combustible.

#### SPECIAL FIRE FIGHTING PROCEDURES

N/A.

## TERRACAULK (ALL GRADES)

**UNUSUAL FIRE & EXPLOSION HAZARDS**

N/A.

**SPECIFIC HAZARDS**

N/A.

**PROTECTIVE MEASURES IN FIRE**

N/A

### 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

**ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter drains, sewers or watercourses.

**SPILL CLEAN UP METHODS**

Avoid generation and spreading of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

### 7 HANDLING AND STORAGE

**USAGE PRECAUTIONS**

Avoid contact with skin and eyes. Avoid inhalation of dust.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry and cool place. Keep in original container.

**STORAGE CLASS**

Chemical storage.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
PORTLAND CEMENT	WEL		4 mg/m3			
SILICA SAND	WEL		0,1 mg/m3			

WEL = Workplace Exposure Limit.

**INGREDIENT COMMENTS**

Provide good ventilation and local exhaust in working area

**PROTECTIVE EQUIPMENT**



**ENGINEERING MEASURES**

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

**RESPIRATORY EQUIPMENT**

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment.

**HAND PROTECTION**

For prolonged or repeated skin contact use suitable protective gloves.

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENE MEASURES**

Use appropriate hand lotion to prevent defatting and cracking of skin. Wash at the end of each work shift and before eating, smoking and using the toilet.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Grains Fines
COLOUR	Grey
ODOUR	Slight odour

**TERRACAULK (ALL GRADES)**

BULK DENSITY

1.9 kg/l

pH-VALUE, CONC. SOLUTION

Approximately 12 to 13 in  
Aqueous  
Mix**10 STABILITY AND REACTIVITY**

## STABILITY

Stable under normal temperature conditions and recommended use.

## CONDITIONS TO AVOID

Avoid contact with water.

## HAZARDOUS POLYMERISATION

Will not polymerise.

## POLYMERISATION DESCRIPTION

Not relavent

## MATERIALS TO AVOID

Strong acids.

**11 TOXICOLOGICAL INFORMATION**

## INHALATION

May cause irritation to the respiratory system.

## INGESTION

May cause chemical burns in mouth and throat.

## SKIN CONTACT

Powder may irritate skin.

## EYE CONTACT

Risk of serious damage to eyes.

## HEALTH WARNINGS

This substance is a moderate irritant.

**12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## MOBILITY

The product hardens to a solid immobile substance.

## BIOACCUMULATION

Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

## DEGRADABILITY

This product mainly consists of inorganic compounds which are not biodegradable. The remaining substances of the product are expected to be not readily biodegradable.

## ACUTE FISH TOXICITY

Not considered toxic to fish.

**13 DISPOSAL CONSIDERATIONS**

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**

## GENERAL

Not regulated.

No transport warning sign required.

## ROAD TRANSPORT NOTES

Not Classified

## RAIL TRANSPORT NOTES

Not classified.

## SEA TRANSPORT NOTES

Not classified.

## AIR TRANSPORT NOTES

Not classified.

**15 REGULATORY INFORMATION**

## LABELLING

**TERRACAULK (ALL GRADES)**

Irritant

**RISK PHRASES**

R38 Irritating to skin.  
 R41 Risk of serious damage to eyes.

**SAFETY PHRASES**

S24/25 Avoid contact with skin and eyes.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37/39 Wear suitable gloves and eye/face protection.  
 S60 This material and its container must be disposed of as hazardous waste.

**UK REGULATORY REFERENCES**

The Control of Substances Hazardous to Health Regulations 1988.

**EU DIRECTIVES**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging) Regulations.

**APPROVED CODE OF PRACTICE**

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

**GUIDANCE NOTES**

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

**NATIONAL REGULATIONS**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)  
 Control of Substances Hazardous to Health Regulations 2002 (as amended)

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**16 OTHER INFORMATION**


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SDS NO. 162

**RISK PHRASES IN FULL**

R36/37/38 Irritating to eyes, respiratory system and skin.  
 R38 Irritating to skin.  
 NC Not classified.  
 R41 Risk of serious damage to eyes.

**DISCLAIMER**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.