



# Candiwall Technical Data Sheet

## Candiwall Adhesive Safety Data Sheet

Candiwall has developed a specially formulated adhesive that provides a structural bond between the back of the board and the substrate in masonry applications.

The same adhesive is used to bond the brick slips to the Candiwall XPS board during the installation process.

**ALWAYS USE CANDIWALL ADHESIVE OUTDOORS OR IN A WELL-VENTILATED INTERNAL SPACE.**

### SAFETY INFORMATION

1. Origin and General Details	
<b>1.1 Adhesive Type</b>	Cementitious Adhesive supplied in powder form
<b>1.2 Intended Use</b>	<p>The specially formulated Candiwall adhesive is intended for use in two application types.</p> <ol style="list-style-type: none"> <li>1. The bonding of Candiwall XPS Insulation Board to masonry substrates.</li> <li>2. The bonding of Real Clay Brick Slips to Candiwall XPS Insulation Board.</li> </ol> <p>The same grade of adhesive is intended for either or both uses.</p>
<b>1.3 Origin of Adhesive and Data Supplier</b>	<p>Candigrês-Cerâmica de Grés da Candieira, Lda            Rua 2 de Abril – Candieira            3780-403 Avelãs de Cima            Telephone: 00351 231 522 469            Fax: 00351 231 515 081            E: <a href="mailto:candigres@candigres.com">candigres@candigres.com</a>  <a href="http://www.candigres.com">www.candigres.com</a></p> <p>UK Sole Importer: DKM Brick Cladding Ltd 01825 723404</p>
2. Hazards Identification	
<b>2.1 Risks</b>	Xi - R36; R37; R38 Irritant to eyes, respiratory system and skin
	Xi - R43 May cause sensitization by contact to skin
	Xi - R66 May cause skin dryness or cracking by repeated exposure

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2. Hazards Identification Continued					
<b>2.2 Safety</b>	S2	Keep out of the reach of children			
	S22	Do not breathe in dust particles			
	S24; S25	Avoid contact with skin and eyes			
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice			
	S37; S39	Wear suitable gloves and eye / face protection			
	S46	If swallowed, seek medical advice immediately and show this safety data sheet or packaging safety label.			
<b>2.3 Human health Hazards</b>	Risk of serious and irreversible damage to eyes				
	Prolonged exposure to large amounts of dust increases the risk of pulmonary diseases				
	Prolonged exposure may cause skin irritation.				
3. Composition / Information on ingredients					
<b>3.1 Chemical Composition</b>	<b>Substance</b>	<b>CAS Number</b>	<b>%</b>	<b>EC Number</b>	<b>Classification</b>
	Portland Cement	65997-15-1	25 - 50	266-043-4	Xi- R36/37/38; R43; R41 <b>[1] [2]</b>
	Silica Sand	14808-60-7	50 - 75	238-878-4	Not Classified <b>[2]</b>
	Chemicals	-	0.5 – 5	-	<b>[2]</b>
<b>Classification key</b>					
<b>[1]</b> Substance classified with a health or environmental hazard					
<b>[2]</b> Substance with a workplace exposure limit					
Occupational exposure limits, if available, are listed in section 8 of this document.					
4. First Aid Measures					
<b>Ensure that this document is handed to any first aider, medical professional, doctor or physician who is attending to a person experiencing any of the following symptoms</b>					
<b>4.1 Inhalation</b>	Take the person to a well ventilated area. Breathing should return to normal if it does not, <b>get medical attention if any adverse effects persist or are severe.</b>				
<b>4.2 Eye contact</b>	<b>Get medical attention immediately.</b> The first aider should <b>immediately flush eyes with plenty of water</b> , occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. <b>Continue to rinse for at least 10 minutes.</b> Chemical burns must be treated promptly by a suitably qualified physician or doctor.				
<b>4.3 Skin Contact</b>	Wash gently with soap and water thoroughly. If irritation persists, seek medical attention.				

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4. First Aid Measures Continued	
<b>4.4 Ingestion</b>	Rinse mouth and do not induce vomiting unless directed to do so by a medical professional. Maintain an open airway. <b>Seek immediate medical attention</b>
<b>See section 11 of this document for more detailed information on health effects and symptoms</b>	
5. Fire Fighting Measures	
<b>5.1 Flash Point</b>	The cementitious adhesive is not combustible or explosive and will not contribute or facilitate combustion of any other material.
<b>5.2 Extinguishing Media</b>	All media and extinguishing agents are suitable. Use an extinguishing agent suitable for the surrounding fire.
<b>5.3 Special Exposure Hazards</b>	No specific fire or explosion hazard
<b>5.4 Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode.
6. Accidental Release Measures	
<b>6.1 Personal Precautions</b>	Keep unnecessary and unprotected personnel from entering the spill area. Do not touch or walk through spilt material. Avoid breathing in dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. (see section 8 of this document)
<b>6.2 Environmental precautions</b>	Do not wash cementitious adhesive down drains, sewers, drainage systems, watercourses or in to soakaways or soil. Inform the relevant authorities if the product has caused any environmental damage.
<b>6.3 Large spill</b>	Move bags or containers from spill area. Prevent entry in to water courses, sewers, basements, drains or any other confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal.
<b>6.4 Small spill</b>	Move bags or containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container.
7. Handling and Storage	
<b>7.1 Handling</b>	Make sure you read the packaging label before using the product. If necessary ask for specific instructions from Candiwall UK on 01825 723404 or by e-mail to <a href="mailto:sales@candiwall.net">sales@candiwall.net</a> DO NOT HANDLE the product until you have read and understood all the safety precautions.

	<p>Do not compress empty bags, except when contained in a separate clean bag to eliminate the spread of dust.</p> <p>The full bags weigh 25Kgs and must be manually handled with care to avoid sprains and dislocations in the back, shoulders, arms and legs. When loading bags, ensure that this is done carefully and use appropriate control measures</p>
<b>7.2 Storage</b>	<p>Store in accordance with local regulations. Store in original container / bag protected from direct sunlight in a cool, dry, well ventilated area away from incompatible materials (see section 10 of this document). Also keep away from food and drink. Keep container / bag tightly closed and sealed until ready for use. Do not store in unlabelled containers and use appropriate containment to avoid environmental contamination. Containers / bags that have been opened must be carefully resealed and kept upright to prevent leakage.</p>

### 8. Exposure Controls / Personal Protection

8.1 Exposure Limit Values	Product	No. CAS	Exposure Type	Exposure Limit Values 8 Hour(s)
	Portland Cement	65997-15-1	Inhalable Dust	10mg/m <sup>3</sup>
			Respirable Dust	4mg/m <sup>3</sup>
<b>8.2 Recommended Monitoring Procedures</b>	<p>As with any product that contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and / or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure and inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.</p>			
<b>8.2 Exposure Control</b>	<p>Avoid direct contact with the product as it is being handled. Always use appropriate protective equipment. To avoid risks to human health and the environment, comply with all printed instructions.</p>			
<b>8.2.1 Hygiene Measures</b>	<p>Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking or using the lavatory and at the end of each working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.</p>			
<b>8.2.2 Respiratory protection</b>	<p>Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.</p> <p>Particulate filter P P1: Inert material; P2: Xn; P3: T, T+</p> <p>No special measures required.</p>			

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<b>8.2.3 Hand Protection</b>	Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products is a risk assessment indicates this is necessary. Butyl rubber / nitrile rubber gloves are recommended.
<b>8.2.4 Eye Protection</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates that this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts.
<b>8.2.5 Skin Protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Use barrier skin cream.
<b>8.2.6 Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
<b>9. Physical and Chemical Properties</b>	
<b>9.1 Physical State</b>	Solid-Powder
<b>9.2 Colour</b>	Grey
<b>9.3 Odour</b>	Almost Odourless
<b>9.4 pH</b>	13
<b>9.5 Flammability</b>	Not Flammable
<b>9.6 Solubility</b>	Slightly soluble in water
<b>10. Stability and Reactivity</b>	
<b>10.1 Conditions to avoid</b>	Avoid wet areas or contact with water
<b>10.2 Materials to Avoid</b>	The product will go hard after contact with water
<b>10.3 Hazardous Decomposition Products</b>	There are no known hazardous decomposition products
<b>11. Toxicological Information</b>	
<b>11.1 Immediate Effects</b>	<p><b>Eye contact:</b> Severely irritation to eyes. Risk of serious damage to eyes.</p> <p><b>Skin Contact:</b> May cause irritation or burns after prolonged exposure. Always use proper protection.</p> <p><b>Inhalation:</b> Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose throat and lungs.</p> <p><b>Ingestion:</b> Accidental ingestion of small amounts may cause irritation of the gastrointestinal tract. Ingestion of larger amounts may cause injury.</p>

<b>11.2 Chronic effects</b>	Repeated and prolonged exposure to high concentrations of dust may increase the risk of the onset of pulmonary diseases and respiratory irritation.
<b>12. Ecological Information</b>	
<b>12.1 Ecotoxicity</b>	Partially soluble in water in the form of hydroxides, alkaline form. After hardening due to water absorption (hydration) the product has no ecotoxic risks. Avoid contact of spilt material and runoff with soil and surface waterways. Do not empty in to drains. Dispose of this material and its container / bag in a safe way.
<b>12.2 Mobility</b>	The product is not volatile. However, winds may spread the material in the form of dust. If this seems likely take appropriate action to avoid the uncontrolled spread of dust.
<b>13. Disposal Considerations</b>	
<b>13.1 Methods of disposal</b>	The generation of waste should be avoided or minimised wherever possible. Empty containers / bags may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licenced waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional authority requirements. Avoid disposal of split bags, material and runoff and contact with soil, waterways, drains and sewers.
<b>14. Transport Information</b>	
<b>14.1 Packaging</b>	The product is packaged in suitable paper sacks with a total weight of 25kgs. The sacks are properly palletised and stretch or shrink wrapped to maintain integrity.
<b>14.2 Transport</b>	This cementitious adhesive is not a dangerous substance. No special precautions are necessary other than those outlined in paragraph 8 of this document. The product is not regulated by ADR, IMDG or IATA
<b>15. Regulatory Information</b>	
<p><b><u>EU regulations</u></b> Classification and labelling have been determined according to the following Decrees/ Laws and EU regulations:- Decree / Law 98/2010 Which establishes the rules that govern the classification, packaging and labelling of substances that are dangerous to human health or the environment. Decree / Law 293/2009 concerning the registration, evaluation, authorisation and reaction of chemicals (REACH). EU regulation no. 1907/2006 of the European Parliament and European Council also refers. EU Regulation 1272/2008 of the European Parliament and European Council relating to the packaging of substances and mixtures.</p>	



EU Regulation 1907/2008 of the European Parliament and European Council concerning the registration, evaluation, authorisation and reaction of chemicals (REACH).

### 16. Other Information

In addition to the information contained in this safety data sheet, it is strongly recommended that you also consult all relevant Candiwall Technical Datasheets. These are available on our website as downloads at [www.candiwall.net](http://www.candiwall.net)

We strongly recommend that all installers undertake appropriate training relating to the risks, precautions and installation methods and proper uses of the Candiwall System as a whole. You can find out more on our website. [www.candiwall.net](http://www.candiwall.net)

#### NOTE TO READER:

*The information contained in this safety data sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our current most current General Conditions of Sale shall apply. Please consult the Technical Data Sheet prior to any use or processing of any of the Candiwall System products.*

**Date of Publication:- May 2018**



Telephone: 01825 723404 E-Mail: [sales@candiwall.net](mailto:sales@candiwall.net) Website: [www.candiwall.net](http://www.candiwall.net)

DKM Brick Cladding Ltd Bluebell Business Estate, Lewes Road, Uckfield, TN22 3HQ