

Gemini Gel

GEM001 & GEM002



FEATURES

Gemini Gel is a silicone rubber putty which fills void areas inside an enclosed item which is ready to be used to protect electrical components from coming into contact with water whilst being used in areas with humidity both indoors and outdoors. It can be removed and reused no matter the length of its installation.

PHYSICAL CHARACTERISTICS

- Transparent
- Self-levelling
- Ready to use
- Easy to apply
- Water resistant

TECHNICAL CHARACTERISTICS

Aspect	Putty
Penetration mm	200
Hardness	Gel
Linear Shrinkage %	< 0 , 1
Flash Point	> 150°C
Boiling Point	> 260°C

ELECTRICAL CHARACTERISTICS

Dielectric strength	kV/mm approx 23
Cross linking time	15' at 23°C
Volume resistivity	W cm approx 1.10 ⁵
Working Temperature	No alteration up to 250°C



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Gemini Gel

GEM001

AUSTRALIAN COMPLIANCE STANDARDS

AS/NZS 3439.1:2002

Low-voltage switchgear and controlgear assemblies
Part 1: Type-tested and partially type-tested assemblies
(IEC 60439-1:1999 MOD)

AS 60529 - 2004 IEC 60529 Ed 2.1:2001

Degrees of protection provided by enclosures (IP Code) (Refer to Safety Data Sheet for specifications)
Applied Voltage (V) 3500: Positive Result.

GEMINI GEL, unlike the other products on the market, has no problem with temperature (Refer to Safety Data Sheet for specifications). These figures are intended as a guide and should not be used in preparing specifications.

SAFETY INSTRUCTIONS

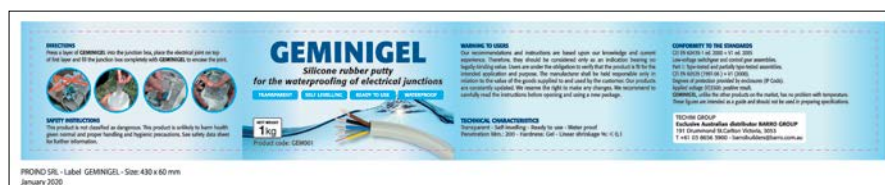
This product is not classified as dangerous. This product is unlikely to harm health, given normal and proper handling and hygienic precautions. Do not catalyse gel with another element. See Safety Data Sheet for more proper use instructions.

WARNING TO USERS

Our recommendations and instructions are based upon our knowledge and current experience. Therefore, they should be considered only as indication bearing no legally-binding value. Users are under the obligation to verify that the product is fit for the intended applications and purpose. The manufacturer shall be held responsible only in relation to the value of the goods supplied to and used by the customer. Our products are constantly updated. We reserve the right to make any change. We recommend to carefully read the instructions before opening and using a new package.

PACKAGING

Screw Top Plastic Drum of 1kg gel



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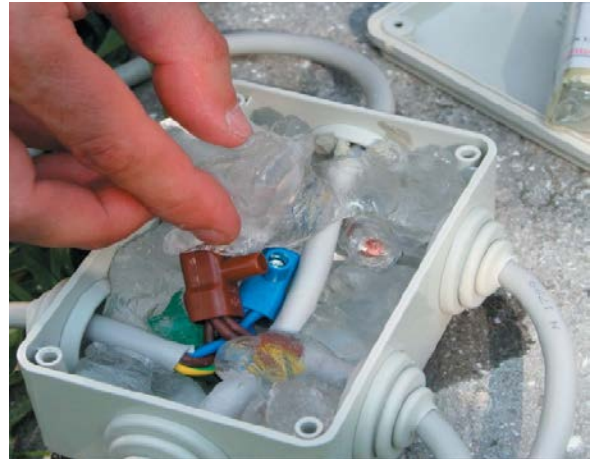
Gemini Gel

GEM001

INSTRUCTION FOR USE



Take the gel out of the tub, equivalent to the size of the void.



Start filling the void with the gel and press into all areas and corners leaving absolutely no gaps.



Fill the entire void all the way to the top, ensuring there are no air bubbles or gaps when component is closed. Gel will then smooth out to fill the entire space, so make sure that enough gel is used, if not enough add more.

SAFETY INSTRUCTIONS AND PRODUCT GUIDELINES

GEMINI GEL



NON-Hazardous, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product Name: GEMINI GEL

Recommended Use: Putty for Filling

Supplier: BARRO GROUP PTY LTD
191 Drummond Street
Carlton Victoria 3053 Australia

Telephone: (03) 9663 1333
Facsimile: (03) 9663 2555

Email Address: barrobuilters@barro.com.au
Expert e-mail:
Address:
Website: www.barro.com.au
Emergency Telephone Number: (03) 9663 1333 (Office Hours)

2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of Safe Work Australia.

Poison Schedule: Unknown

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land."

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Ingredients determined to be Non-Hazardous		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until full recovered

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye Contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Notes to Physician: Treat Symptomatically.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not Applicable

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific Hazards: Combustible Material

Fire Fighting further Advice: On Burning or Decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and repeated or prolonged skin contact. Avoid inhalation of dust.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by Safe Work Australia.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

National occupational exposure limits: Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES.

Wear safety shoes, overalls, gloves, safety glasses. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drink or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated prolonged skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Colour:	Colourless
Odour:	Characteristics
Solubility:	Insoluble in Water
Density:	1.0g/cm ³ @ 20°C
Vapour Pressure (20°C):	<1000 hPa
Flash Point (°C):	>150
Boiling Point/Range (°C):	>260
Viscosity:	Not Applicable

(Typical Values only - consult specification sheet)
N Av = Not available, N App = Not Applicable)

10. STABILITY AND REACTIVITY

Chemical Stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin Contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye Contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Hazardous reactions: No known hazardous reactions.

Acute Toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5 mg/L

Skin Contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Ingestion: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >2,000 mg/Kg

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not as respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration Hazard : This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous

Reproductive Toxicity (including via lactation): This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: aThis material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100mg/L

Long Term Aquatic Hazard: This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative Potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international regulations.

14. TRANSPORT INFORMATION**ROAD AND RAIL TRANSPORT**

Not classified as Dangerous Goods by the criteria of the "Australia Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

15. REGULATORY INFORMATION**This material/constituent(s) is covered by the following requirements:**

- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS)
- All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

HSNO Group Standard: NA - Not Applicable

16. OTHER INFORMATION

Reason for Issue: Revised

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.