

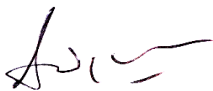


Product Technical Specification

| | | | |
|---|---|--|--|
| Supplier product code | 02718 | |  |
| Version | 0009 | | |
| Issue date | 08.01.2019 | | |
| Range | Renshaw Professional | | |
| Product title | White Ready to Roll Icing | | |
| Product description | <p>A white ready to use icing.</p> | | |
| Pack size: | 4 x 2.5kg e | | |
| Contacts | | | |
| Specifications queries | Email: | Specifications@realgoodfoodplc.com | |
| Manufacturing Site Head of Technical | Name: | Samuel Wynne | |
| | Email: | samuel.wynne@jfrenshaw.co.uk | |
| | Telephone: | 0151 706 8200 | |
| | Mobile: | 07738422219 | |
| | Address: | 229 Crown Street Liverpool Merseyside L8 7RF | |
| Applications information | Web address: | https://www.renshawbaking.com | |
| | Contact: | info@renshawbaking.com | |
| Sales queries | Email: | sales@jfrenshaw.co.uk | |
| Legal Compliance | | | |
| <p>This product, it's hygienic manufacture, food safety, ingredients, packaging, labelling, storage and transportation within our control, conform to all relevant UK/EU legislation in force at the date of manufacture.</p> <p>The product is warranted as per the statement included in the sales documentation at time of purchase.</p> | | | |
| GFSI Certification | | | |
| BRC | https://www.brcdirectory.com/InternalSite//Site.aspx?BrcSiteCode=1060562 | | |
| Completed on behalf of JF Renshaw Ltd (A Real Good Food PLC company): | | | |
| Signed: |  | | |
| Name: | Sarah Cheetham | | |
| Position: | Specifications Technologist | | |
| Reviewed and approved on behalf of JF Renshaw Ltd (A Real Good Food PLC company): | | | |
| Signed: |  | | |
| Name: | Samuel Wynne | | |
| Position: | Site Head of Technical - JF Renshaw | | |

Product Technical Specification

| |
|---|
| Legal name |
| Sugar paste |
| Ingredients list |
| Sugar, Glucose Syrup, Water, Palm Oil, Humectant: Vegetable Glycerine, Emulsifier: Mono- and Di-Glycerides of Fatty Acids, Stabiliser: Tragacanth Gum, Preservative: Potassium Sorbate, Natural Flavouring. |
| Made in a factory that handles nut ingredients (Almonds) |

| Composition | Typical figures % | Countries of origin |
|---|-------------------|--|
| Sugar | 80 - 85 | Angola, Australia, Barbados, Belize, Benin, Brazil, Burkina Faso, Colombia, Costa Rica, Dominican Republic, El Salvador, Ethiopia, Fiji, France, Guadeloupe, Guatemala, Guyana, Honduras, Ivory Coast, Jamaica, Kenya, Laos, Madagascar, Malawi, Mauritius, Mozambique, Nepal, Nicaragua, Panama, Reunion, Suriname, Swaziland, Tanzania, United Kingdom, Zambia |
| Glucose Syrup | 5 - 10 | UK, Netherlands |
| Water | 1 - 5 | UK |
| Palm Oil | 1 - 5 | Papua New Guinea, Solomon Islands, Malaysia, Indonesia |
| Humectant: Vegetable Glycerine (E422) | 1 - 5 | UK, Germany, Belgium, France |
| Emulsifier: Mono- and Di-Glycerides of Fatty Acids (E471) | <1 | Malaysia, Indonesia (Manufactured in Denmark) |
| Stabiliser: Tragacanth Gum (E413) | <1 | Iran, Turkey |
| Preservative: Potassium Sorbate (E202) | <1 | China |
| Natural Flavouring | <1 | UK |

| | |
|-----------------------|-----|
| Colour pigment | |
| N/A | N/A |

| | |
|---|---|
| Palm oil details | |
| Contains components sourced from Palm Oil/Palm Kernel Oil and/ or derivatives | Palm Oil and E471 derived from palm oil |
| RSPO information | N/A |

Product Technical Specification

| Nutritional | |
|---------------------------|----------------------------------|
| Method: Calculated | Typical figures per 100 g |
| Energy (kJ/kcal) | 1646 / 388 |
| Fat (g) | 3.2 |
| of which saturates (g) | 2 |
| Carbohydrates (g) | 90 |
| of which sugars (g) | 88.8 |
| Protein (g) | 0.0 |
| Salt (g) | 0.01 |

| Dietary information | | |
|----------------------------|---------------------|--|
| | Suitable for | Comments |
| Vegetarians | Yes | |
| Vegans | Yes | |
| Kosher | Yes | Certified. Certificate available on request. |
| Halal | Yes | Certified. Certificate available on request. |

| Genetically modified materials |
|--|
| To the best of our knowledge, this product is not made from genetically modified material and does not use processing aids or additives which are genetically modified. A GM policy is available on request. |
| Irradiated materials |
| This product does not contain any ingredients that have been treated with ionising radiation. |
| Nanomaterials |
| This product does not contain any engineered nanomaterials. |

| Shelf life: unopened |
|---|
| 15 months from date of manufacture. |
| Shelf life: opened |
| Once opened, it is the responsibility of our customers to establish the maximum permitted time until all material should be used. This will depend on their specific environment, practices and procedures. |

Product Technical Specification

Free From claims

We do not make any "Free From" claims for our products as we do not conduct any validation testing.

Substances or products causing allergies or intolerances

| Substance | Product ingredient contains? | Used on same production line? | Used in same Factory | Comments |
|--|------------------------------|-------------------------------|----------------------|---|
| Cereals containing gluten, wheat; rye; barley; oats; spelt; kamut and products thereof, except: wheat based glucose syrups including dextrose. | No | No | No | |
| | Yes | Yes | Yes | Exempt from allergen labelling |
| Crustaceans and products thereof | No | No | No | |
| Eggs and products thereof | No | No | Yes | Dried Egg White |
| Fish and products thereof | No | No | No | |
| Peanuts and products thereof | No | No | No | |
| Soybeans and products thereof | No | Yes | Yes | Lecithins |
| Milk and products thereof, including lactose | No | Yes | Yes | Milk, butter, and other derivatives |
| Nuts: Almonds; hazelnuts; walnuts; cashews; pecan nuts; Brazil nuts; pistachio nuts; macademia | No | No | Yes | Almonds |
| Celery and products thereof | No | No | No | |
| Mustard and products thereof | No | No | No | |
| Sesame seeds and products thereof | No | No | No | |
| Sulphur dioxide and sulphites > 10 mg/kg | No | No | Yes | Present in finished product at <10mg/kg |
| Lupin and products thereof | No | No | No | |
| Molluscs and products thereof | No | No | No | |

Product Technical Specification

| Microbiological testing | | |
|----------------------------|---------------------|------------|
| At the time of manufacture | | |
| Organism | Target | Maximum |
| TVC | <5000 cfu/g | 5000 cfu/g |
| Yeasts & Moulds | <10 cfu/g | 100 cfu/g |
| Enterobacteraceae | <10 cfu/g | 10 cfu/g |
| Salmonella | Not detected in 25g | N/A |

CLAS accredited methodology used. Test frequency based on risk assessment (JF Renshaw Ltd, in-house lab)

| Chemical | | |
|----------|------------------------|------------|
| Test | Method | Standard |
| Moisture | Karl Fischer titration | 6.0 - 7.0% |

| Physical | | |
|------------|--------------|---|
| Test | Method | Standard |
| Appearance | Organoleptic | Clean white sugarpaste. Free from any visible lumps or specks. |
| Flavour | Organoleptic | Sweet vanilla. |
| Texture | Organoleptic | Smooth to slightly powdery and soft to the bite leading to a pasty, sticky mouth coating which then dissolves away. |
| Aroma | Organoleptic | Sweet vanilla. |

Product Technical Specification

Brief process description

Milled sugar is combined with fat, glucose, gum and flavouring to give a ready to roll icing which is perfect for decorating cakes and/or modelling. The paste is packed, checkweighed and metal detected.

Overview of HACCP - available upon request

Metal detection

Checked at start up, every hour and end of each packing run: 2.5mm Ferrous, 2.5mm Non-Ferrous, 3.0mm Stainless Steel test pieces

Sieves

Not appropriate for this product type.

Packaging

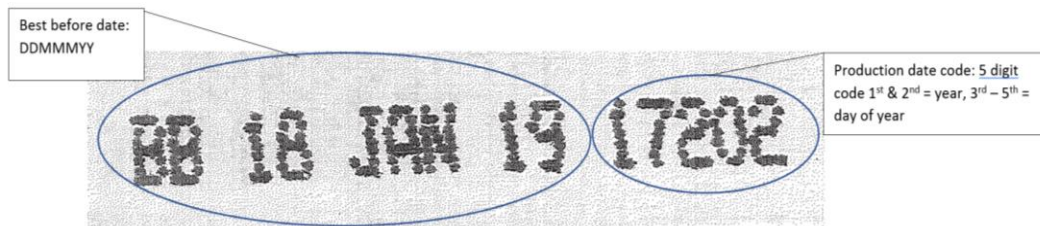
Printed blue 12µm Alox PET/ 38µm LDPE film with a 3 page peel & reveal label applied to back of pack. Packed 4 per corrugated fibreboard outer case. Outer case label applied. 20 cases per layer, 4 layers high, 80 cases per pallet. All pallets shrink/stretched wrapped.

Recycling information

Film - Plastic not currently recycled
Outer case - Card widely recycled

Production date code

5 digit code. 1st & 2nd = year; 3-5 = day of the year e.g 26/08/2016 = 16238
In the event of any issues, please quote information as per example below:



Product Technical Specification

| Health & safety data | | |
|-------------------------------|--|--|
| Physical Appearance | Clean white sugarpaste. | |
| Ingredients | See ingredients section of the specification. | |
| Intended use | For bakery use. | |
| Storage & Handling | See specification. | |
| Occupational exposure hazards | None, under normal conditions of use at room temperature. Avoid eye contact. | |
| Fire/explosion hazard | The product will burn if ignited, but under normal conditions of use, will present no fire risk. | |
| First Aid | Eyes: | Flush with plenty of water. Seek medical advice if needed. |
| | Skin: | Wash with soap and water. |
| | Ingestion: | No hazard under normal conditions of use. |
| | Inhalation: | No hazard under normal conditions of use. |
| Spillage | Wash area with detergent and water to avoid slip hazard. | |
| Disposal of waste | Normal waste disposal in accordance with local and national laws. | |
| Other hazards | None known. | |
| Protective clothing | Normal for food handling. | |

Product Technical Specification

Ready to Roll Icing handling and usage instructions

Ready to roll icing is typically made from icing sugar, glucose syrup, vegetable oil, stabilisers, glycerine, emulsifiers, preservative and flavouring; colours may also be added. (Refer to the ingredients list).

Possible applications:

Sheeting and covering, moulding, modelling and cutting shapes.

Recommended storage

Ready to roll icing should be stored in dry conditions between 5°C and 18°C, away from heat sources and odorous materials. The shelf life of icing is recommended provided the packaging remains unopened and product is stored correctly. It is the responsibility of our customers to carefully consider and establish that the icing lasts for the required shelf life of their end products.

Recommended handling and processing:

a) Opening

Once opened, ready to roll icing should not be exposed to air for prolonged periods as product will harden and also potentially become prone to microbiological contamination.

Once opened, it is the responsibility of our customers to establish the maximum permitted time until all material should be used. This will depend on their specific environment, practices and procedures.

b) Unused material

Any unused material should immediately be wrapped in close fitting polythene, expelling as much air as possible; then stored in an airtight container for later use.

It is the responsibility of our customers to carefully consider and establish that any re-wrapped material is fit for purpose when using it.

c) Handling

For best results before using the icing, ensure it's tempered to room temperature.

Using the heels of both hands, gently knead the paste to warm it and to improve elasticity and pliability.

d) Rolling out

Roll out the ready to roll icing on a non-stick surface using a rolling pin and icing sugar to dust the work surface, avoid using an excess of icing sugar as it will cause icing to dry out and crack.

Never roll out cold icing, always ensure you knead the product before rolling out.

Avoid the use of flour to prevent sticking or aid sheeting, as this will potentially introduce both a microbiological and allergen issue.

Product Technical Specification

e) Placing sugarpaste on cake

Gently lift the rolled out layer of Ready to roll icing with a rolling pin or with both hands, taking care not to stretch or tear it, position carefully on cake.

Smooth and shape the icing on cake top and sides until it feels silky to the touch, immediately trim any excess icing flush with the base of the cake using a sharp knife.

f) Colouring

If colouring white ready to roll icing, always use a suitable paste food colouring.

Renshaw has an extensive range of pre-coloured Renshaw Professional Ready to Roll icing options.

g) Adherence on cakes

Alcohol, clear spirit or cooled boiled water is recommended to be applied to marzipan layer, to aid adherence of icing layer onto the first marzipan layer.

If covering onto a sponge cake, a thin coating of butter cream is recommended to be applied to it to aid adherence of icing layer onto the cake.

h) Adherence of models

Alcohol, clear spirit or cooled boiled water is recommended to aid the adherence of any models to the icing layer.

Rework

Ensure rework is not overexposed to air or moisture causing drying out or stickiness. Where material is reworked this should not be contaminated with cake crumb or jam.

Rework material should be kept in a cool dry place, wrapped well and used within a short period of time.

It is the responsibility of our customers to carefully consider and establish that any re-work material is fit for purpose and that the maximum permitted time until all material should be used when using it, depending on their specific environment, practices and procedures.

Water activity

The imbalance of water activity between the various components of a cake will potentially cause moisture migration to the icing layer. This should be considered during the development of any products.

Product Technical Specification

Things to be aware of:

Ready to roll icing may dry out or crack if the icing has been over exposed to air during or prior to handling, too much dusting sugar will also cause drying out and cracking of the icing.

Ready to roll icing may become sticky if it has been exposed to moisture during or prior to handling. This may be caused by an imbalance of water activity between various cake layers. If adding food colourings to icing, you must always use paste food colours, as liquids will soften the icing.

During manufacture, best practices are carried out to ensure that there is little or no variation in the pre-coloured Renshaw Professional Ready to Roll icing range however; where natural colours are used, there can be some natural variation in colour.