**EMCE Sponge.** Production of whipped mixtures: simple, cost-effective and in consistent quality.



The whipping emulsifier range in Mühlenchemie quality.



## EMCE Sponge – the modern way to make whipped cake mixtures

Sponges, plain and fruit cakes, muffins and brownies are among the most popular sweet bakery products, especially when they are light and tender and have a fine texture. These products are made from whipped mixtures – traditionally in a complex, expensive and time-consuming process.

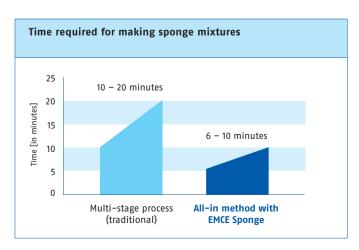
New EMCE Sponge makes it easy to produce whipped mixtures with excellent and consistent results. With EMCE Sponge, Mühlenchemie's applications research team has created a range of high-quality, functional whipping emulsifiers that combines simple use with maximum reliability in the production process. A further important advantage of EMCE Sponge is a saving in costs, as the egg content is reduced.



The use of EMCE Sponge offers important benefits			
Saves time	because of the shorter process		
Simple all-in method	instead of the complex traditional procedure		
Consistent quality of the finished products	No fluctuations in baked volume, texture, flavour, stability and shelf-life		
Reliable process	The simple all-in method brings consistently satisfactory results		
Lower cost	because of the reduced egg content; a 10 – 25 % saving in raw materials		

# The traditional method: complex and time-consuming

The traditional method of making whipped cake mixtures is time-consuming and complex, and the results are not always satisfactory. The whole egg or white of egg in the mass is beaten separately with part of the sugar in the recipe. The remaining ingredients are then stirred in carefully. For a long time modern bakeries were in search of alternatives such as those offered by EMCE Sponge – and not only because of the risks involved in the production process.



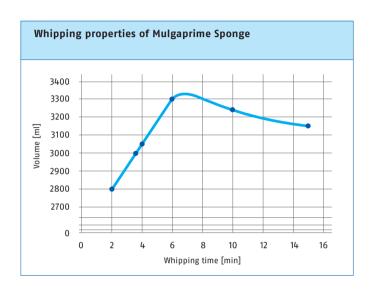


# The all-in method: first-class results every time

With EMCE Sponge, whipped mixtures are made by the all-in method. All the ingredients of the recipe are weighed into a mixer and beaten for 5 – 10 minutes. These mixtures remain stable throughout the production process, ensuring high, uniform quality of the baked goods. Fluctuations in the quality of the other raw materials used are evened out. Important attributes of the baked products such as volume, texture, flavour, long shelf-life and freshness remain consistent on a high level. And the shorter time required for processing and the reduced egg content cut production costs.



Mühlenchemie offers you EMCE Sponge in powder form. Powder is used much more often than paste because powdered products are easier to handle and mix readily with other ingredients. They also have a longer shelf-life.



# Individual premixes with EMCE Sponge to meet your specific needs

A whipping emulsifier may have to meet a great diversity of requirements. In Asia they will be different from those in Africa or Germany. Products specially designed for specific markets and customers are one of Mühlenchemie's key competences. We will be pleased to make up premixes optimally suited to your flour quality and other raw material properties and your technical equipment. Please approach us.

### An overview of our products

Product	Application	Dosage (flour / starch basis)	Ingredients for the application
Mulgaprime Sponge 20	Whipping emulsifier for making beaten cake mixtures	Sponge mixtures 10 – 14 % Madeira cake 4 – 8 %	Wheat flour, starch, sugar, whole egg, baking powder, water
Mulgaprime Sponge 40	Whipping emulsifier for making light, beaten cake mixtures	Sponge mixtures 10 – 14 % Madeira cake 4 – 8 %	Wheat flour, starch, sugar, whole egg, baking powder, water

### **Example of an application**

Ready-mixed flour for sponge mixtures

\*Whether Mulgaprime 20 or 40 is used depends on the other raw materials in the recipe and should be determined by making tests.

### Our Range of Mühlenchemie Products

Mühlenchemie offers the whole spectrum of products for flour treatment in first-class branded quality.

Rely on us - as many mills throughout the world already do.

More details at www.muehlenchemie.de

#### Flour standardization

**Enzyme Systems** 

- Amylases
- Oxidases
- Hemicellulases
- Proteases

Bromate substitutes
Oxidizing agents

Other flour improvers

# Flour improvement to solve specific problems and for special applications

Low-enzyme flour Heat damage Low-protein flour Ropiness Bug damage Sprout damage

### **Vitamin premixes**

Vitaminizing

Rye flours

## Flour with additional benefits, "functional food"

Fatty-acids with a vitamin effect Probiotic dietary fibres Lecithin to promote performance Refreshing ingredients Protein improvement

### Biscuits, crackers, wafers

Enzyme Systems Emulsifiers and releasing agents Flavourings

### **Pastry goods**

Whipping agents Raising agents

### **Baking premixes**

Frozen doughs Small wheat products Mixed wheat and rye bread Flat bread and pizza bases

### Raw materials for baking

Emulsifiers
Wheat gluten
Hydrocolloids
Malt flour
Preservatives
Soy flour
Food colorants
Sour dough powder
Sugars and artificial sweeteners

## Pasta and steamed doughs

Enzyme Systems
Functional compounds

### **Services**

Cereal and flour analysis

- Baking trials
- · Advice on flour quality
- Analytical kits
   Training courses and seminars
   Laboratory equipment

### **Dosing equipment**

Precision dosing device



Please contact us for further information:

#### Mühlenchemie GmbH & Co. KG

Kurt-Fischer-Straße 55 | 22926 Ahrensburg, Germany | Phone: +49 (o) 4102 / 202-001 Fax: +49 (o) 4102 / 202-010 | info@muehlenchemie.de | www.muehlenchemie.de

#### Stern Ingredients Asia-Pacific Pte Ltd

No. 1 International Business Park | The Synergy #09-04, Singapore 609 917 | Phone: +65 / 656 920 06 Fax: +65 / 656 911 56 | info@sterningredients.com.sg | www.sterningredients.com.sg



Profesor Waksman, 5 - 10°A | 28036 Madrid, Spain | Phone: +34 / 91 350 91 13 Fax: +34 / 91 350 91 70 | info@sterningredients.es | www.sterningredients.es



