



### What is Shelf Life?

The shelf life of a product is:
The time during which a product,
produced under normal
circumstances and stored in relevant
conditions remains suitable for sale
and consumption (without
unacceptable microbiological
development, chemical or taste
differences)

How to extend shelf life Alcohol Sugars Fats PH balance

### **Sweetness Compared to Sugar**

100 Sucrose

125 Invert sugar

74 Glucose DE 60-40

30 Dextrose

50 Sorbitol

50 Isomalt

#### Indicator of Shelf Life

AW > 0.85 Max. 3 weeks 0.85 - 0.7 Max. 3 months 0.7 - 0.65 6 - 9 months

AW < 0.60 Microbiologically stable

# Caramelised Sugar Ganache Recipe – AW 0.67

Sugar
Glucose
Glucose
Cream
400g
Banana puree
Passionfruit puree
Butter
Cacao Barry Zephyr
White Chocolate

#### Method

1. Dry caramelise the sugar and then add in the glucose

Pre warm the cream and then add into the caramel to stop it cooking

Add in the fruit purees and then cook to 106°c Cool the mixture down to 38°c and then add in the butter

Temper the white chocolate, add and emulsify the ganache until smooth and glossy Pipe into shells at 26°c

# Cointreau Truffles - AW 0.75

Quantity (g)	Ingredient	Instructions	Water (g)	Alcohol (g)		Water (g)	Alcohol (g)
		Bring the cream to the					
	Whipping	boil, pour over the					
550	Cream	chocolate	357.5	0		357.5	0
	823 Milk	Emulsify well before					
1200	Chocolate	adding the alcohol	0	0		0	0
		Emulsify again and cool to					
	Cointreau	29c before piping into			275g of		
150	(60%)	truffle shells	60	90	40% vol	165	110
1900			417.5	90		522.5	110
	If we used a	a 40% Cointreau we would					
	need to use 275g to get 21% alcohol		90 (	divided by			
		655	41	7.5 = 21.5			21%
				21.5%			
				alcohol			









# Long shelf life with sugars AW 0.71 (approx 6 months)

Whipping cream 35% fat	340g
Invert Sugar	90g
Glucose Syrup	40g
Sorbitol (powdered)	100g
Salt	2g
Cacao Barry Fleur de Cao	620g
70% Dark Chocolate	, and the second
Butter	120g

#### Method

- 1. Add the sugars and salt to the cream and warm until dissolved
- 2. Melt the chocolate to 30c
- 3. Add the cream mix to the chocolate and emulsify well

## **Resources mentioned**

- The Chocolatier's Kitchen
- Jean Pierre Wybauw Gold
- Be Better Butter (plantbased alternative)
- Aqualab Pawkit Portable Water Activity Metre

We will be running a Shelf Life 2 day course with Alexandre Bourdeaux at the UK Chocolate Academy in Banbury.

If you'd be interested in attending, please contact us at

chocolate\_academy\_ukie@barry-callebaut.com

Don't forget you can watch the replay of the live stream anytime over at @KeylinkLtd on Youtube under the LIVE tab.







