MultiSal® Sebum Control (MS SBC)

A technology that reduces excess sebum production and imparts a matte finish to the skin by instantly and continuously absorbing excess oil.

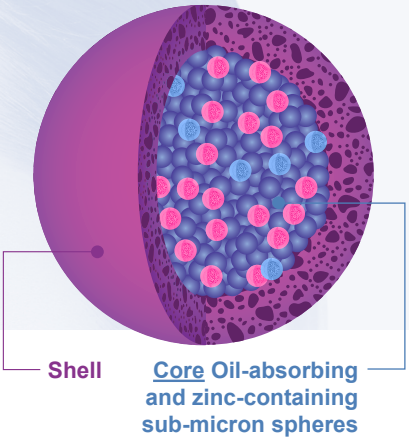

Figure 1: The sub-micron structure of MS SBC.

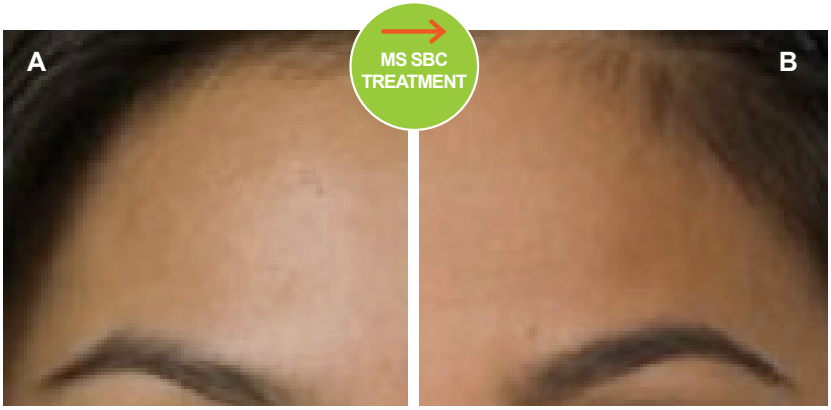

Figure 2: Illustration of the instant shine-reduction imparted by the outer microsphere of MS SBC; before MS SBC appliaction (A) and after (B).

Excess sebum creates an ideal environment for the growth of acne-causing bacteria. The accumulation of sebum also causes skin to appear undesirably shiny. A major challenge consumers face is maintaining smooth, matte skin for the whole day. MS SBC addresses this issue by instantly reducing sebum and controlling future release by delivering zinc throughout the day to control oil production.

UNIQUE FEATURES

1. **INSTANT VISIBLE RESULTS**
   The natural microspheres provide instant oil absorption.
2. **ALL-DAY SHINE CONTROL**
   Zinc is slowly released to provide all-day shine reduction.
3. **EASE OF FORMULATION**
   Compatible in powders, water, and oil-based formulations.

HOW THE TECHNOLOGY HELPS YOU

This double-encapsulation system consists of a microsphere 20 microns in diameter (Figure 1). Two types of sub-micron spheres are encapsulated in microspheres: oil-absorbing and zinc-encapsulating. The external shell absorbs the excess oil on the skin surface to provide immediate impact (Figure 2). The sub-micron spheres with zinc are then released from the core to modulate sebum secretion.

MS SBC raw

1 **Lotions**

2 **Body powder**

3 **Acne treatment wipes**

Tel 1-(844) SALVONA | sales@salvona.com | www.salvona.com
2521 Kuser Road, Hamilton NJ 08691, USA
v021417

MultiSal® Sebum Control (MS SBC)

A technology that reduces excess sebum production and imparts a matte finish to the skin by instantly and continuously absorbing excess oil.

SUPERIOR SHINE REDUCTION

MS SBC is highly effective in reducing shine on skin, resulting in a healthy-looking matte finish that is conducive with blemish-free skin. A study was done comparing 5% MS SBC in a cream application to 5% free silica in a cream application (Figure 3). Shine reduction was measured as a percentage of initial shine intensity on the skin over a period of four hours.

At the one-hour mark, MS SBC outperformed the free silica almost two-fold, reducing shine on the skin by almost 90%. By four hours, the absorbency of the free silica decreased significantly, indicating that it was unable to maintain shine reduction over a long period of time. In contrast, MS SBC continued to perform, displaying its ability to reduce shine over several hours.

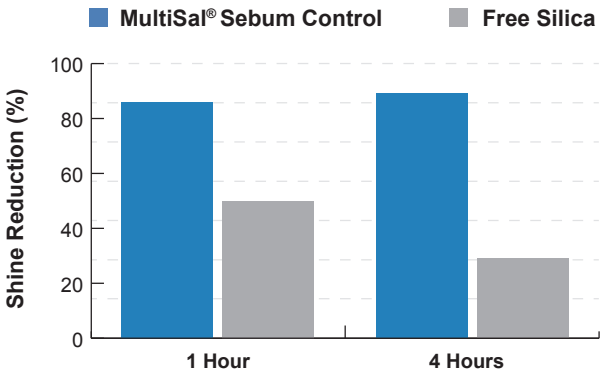

Figure 3: Results of a study comparing a cream application with 5% MS SBC with a cream application with 5% free silica. Sebum was measured with a Khazaka Electronic Sebumeter®.

FORMULATION

Ingredients	(W/W %)
MultiSal® Sebum Control	3
SalSphere® Salicylic Acid	0.5
Salvona Pre-Mix C #5068	25
DI Water	70.5
Preservative	1

TECHNICAL DATA

Appearance @ 20°C	Free flowing powder
Applications	Ideal for skin care applications such as lotions, body powders, acne spot treatments, and facial wipes
Color	Pale yellow
Odor	Characteristic
pH (1 % solution)	5.0 ± 1.0
Shelf Life (months)	24
Usage Level	2-5
Storage (°C)	Closed container at 12-32° with <45% RH

Tel 1-(844) SALVONA | sales@salvona.com | www.salvona.com
2521 Kuser Road, Hamilton NJ 08691, USA
v021417