

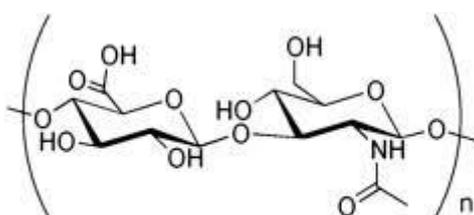
FORMULATION OF ENCAPSULATED HYALURONIC ACID ACTIFILMS FOR BATHBOMB

Actifilm™: Actifilms are films made up of Hydroxypropylmethyl cellulose which is a chemically modified cellulose polymer. The dissolving film delivery vehicle is just a thin flexible sheet of polymer in which an active ingredient has been incorporated. These actifilms magically disappear upon rubbing by delivering dry actives i.e they are visually dry but soften easily when it gets in contact with water, thus they have the amazing properties to soften in the formula making them more malleable and ready to disintegrate when pressure is applied. Umang Pharmatech manufactures **Actifilm™ i.e AF** exclusively available in shapes and varieties of colors available for personal care applications.

KEY PROPERTIES OF ACTIFILMS :

- Non GMO
- Paraben free
- Natural, non-toxic, non-comedogenic and non-allergenic properties
- Gentle and Effective on skin
- Rapid dispersion with excellent uniformity.
- Provide visual effects and delivery actives
- Activates four product senses you can see, smell, taste & touch it and disappears on rubbing
- Nature friendly as soluble in water

HYALURONIC ACID



Hyaluronic Acid

Hyaluronic acid is a sugar molecule that occurs naturally in the skin, it

helps to bind water to collagen, trapping it in the skin, so that skin can appear plumper, dewier, and more hydrated. the ingredient, as it binds to water to plump up your skin and give it that dewy, glowy effect.

WHY ENCAPSULATED HYALURONIC ACID ?

Encapsulation Technology is used in the development of cosmetic formulations that more stable, more effective and with improved sensory properties. Encapsulation improves thermal stability. Hyaluronic acid is encapsulated due to its lightweight, watery nature, and ability to lock in moisture from the environment, calming, softening, toning, invigorating and deeper dermis to fully hydrate the skin effects on the skin.

INCI NAME:

Sodium Hyaluronate

ENCAPSULATED HYALURONIC ACID IN BATHBOMB :



Bath bombs are single-use, spherical blends of smoothing, fragrant extracts and oils .

The primary ingredients of bath bombs are sodium bicarbonate and citric acid, which interact with each other once dissolved in water to create that fizzing effect . Once this reaction occurs, the bath bomb dissolves and breaks apart, releasing all the good stuff inside: from delicious scents to delivering actives

that gets dispersed into water to provide clear, soft, healthy and glowing skin . Encapsulated Hyaluronic acid in bath bombs works by acting as a cushion and lubricant in the joints and other tissues. Encapsulated hyaluronic acid, act as 'humectants' that attract water to the skin in an effort to hydrate it.

FORMULATION PROCEDURE:

Step I: Dry mixing of Xanthan Gum and Citric acid .

Step II: Dry mixing of sodium bicarbonate and sodium starch glycolate.

Step III: Dry mixing of mannitol, cross caramellose sodium lauryl sulphate.

Step IV: PVPK-30,colour ,purified water (solution preparation)

Step V:Addition of Step I , II , III is added to the mixture. Stirring under vaccum is resumed without further heating.

Step VI:Addition of Step IV into Step V addition of fragrance .The fragrance added is mixed under vaccum at room temperature.

Encapsulated Hyaluronic acid actifilms are added at the end of manufacturing at moderate temperature and at slow stirring.

DOSAGE: 0.2% for visual effect and up to 10 % for colour or active delivery

STORAGE: Temperature between 5° C - 25° C

KEYWORDS: Encapsulated films, fast dissolving films ,films for special effects, HPMC films, dissolving films for bathbomb, water soluble films for decoration.

FORMULATION TIP	
BATHBOMB	
Ingredients	Qty (%)
Xanthan Gum	55.05
Citric acid	24
Sodium bicarbonate	30
PVPK30	2
Sodium Starch Glycolate	2
Mannitol	5
Cross caramellose	1
Fragrance :Rose	1
Color:Blue	1
Actifilms with Hyaluronic acid	0.2
Purified water	Up to 100%

Different shapes /colour of Actifilms

Pink colour Cross shape



Silver Colour Tree shape



Pink colour Pumpkin shape

