

## **FORMULATION OF ENCAPSULATED AVOCADO OIL FILMS FOR SOAP**

Actifilms™ AF is made up of Hydroxypropyl Methyl Cellulose which is a chemically modified cellulose polymer. HPMC is a water soluble synthetic polymer which was used as film former. It is a thin, flexible sheet of polymer in which an active ingredient has been incorporated. Films are rapidly disintegrate and also have greater stability and shelf life. Umang Pharmatech manufactures Actifilms™ i.e AF exclusively available in shapes and varieties of colors available for many personal care applications .

### **AVOCADO OIL:**

Avocado oil is vegetable oil extracted from avocado fruit through cold pressed method belongs to the *Lauraceae* family. It has a unique color ,flavor and naturally low acidic .The main constituents found in avocado oil is high monounsaturated (60%)fatty acids and low polyunsaturated(10%) fatty acid. Avocado Oil is high absorption and penetration ability into the skin and also act as a strong antioxidant and having emollient properties. It use for many cosmetic formulation like creams ,gels and soaps.

### **TECHNOLOGY**

Umang Pharmatech has used the Pharmaceutical's popular technology i.e. Encapsulation and Film Casting Technology to Develop Actifims™ with incorporation of desirable actives in personal care formulations to obtained better Visual impact, deliver desirable actives ingredients and provide stable films within the formulation.

### **INCI NAME:**

Persea gratissima (Avocado) Oil

### **KEY PROPERTIES OF ACTIFILMS™:**

- Easy to handle at the industrial scale.
- Disappear on gentle rubbing without leaving any residue on skin use upon application.
- Non toxic and Non irritant ,soluble in water. Available in natural flavors.
- Available in different shapes & color
- Film have more flexibility and better physical properties.



## EFFECT OF ENCAPSULATED AVOCADO OIL FILMS FOR SOAP:

Avocado Oil may help to treat the wrinkles, tighten the skin and enhance smooth texture of the skin due to its high absorption ability into the skin. Avocado Oil is rich in vitamins and can be used on dry, rough and sensitive skin. It may also help to regenerate and rehydrate the skin.

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

**STORAGE:** Temperature between 5° C and 25° C

### FORMULATION PROCEDURE :

#### Stage 1:

Add all components to water

#### Stage 2 :

Heat to 70C.

#### Stage 3:

Blend until homogeneous; cool to 50C.

#### Stage 4:

Adjust pH to 7.0-7.5 with Citric Acid.

#### Stage 5:

Add DMDM Hydantoin and Fragrance.

#### Stage 6:

Actifilms™ was added at the last stage and mix it very slowly.

#### Stage 7:

Cool to room temperature.

FORMULATION TIP	
SOAP	
Ingredients	Wt%
Potassium Cocoate	25.00
Disodium Cocoamphodiacetate	20.0
Lauramide DEA	2.00
Glycol Stearate	1.0
Actifilms™	0.2
DMDM Hydantoin	q.s
Fragrance	q.s
D.I. Water	qs

### KEY WORDS:

Encapsulated films ,Films for special effects ,HPMC films, dissolving Films.



**Flower Shape**



**Fish Shape**



**Bell Shape**



**Christmas Tree Shape**