FORMULATION OF ENCAPSULATED VITAMIN E FILMS FOR SOAP

ActifilmsTM 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 ActifilmsTM i.e AF exclusively available in shapes and varities of colors available for many personal care applications.

VITAMIN E:

Vitamin E is commonly found in vegetation. Vitamin E or α Tocopherol is widely used as a strong lipid soluble antioxidant protecting cell membranes from reactive oxygen specie. It is a major ingredient in various cosmetic products. Vitamin E protects the skin from various injurious effects owing to solar radiation. Vitamin E prevents the skin aging and improves the dry skin condition. Vitamin E supports the hair growth and boosts the elasticity and shine.

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:

Tocopheryl acetate

KEY PROPERTIES OF ACTIFILMS™:

- Easy to handle at the industrial scale.
- Disappear on gentle rubbing without leaving any residue on teeth / oral case 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 VITAMIN E FILMS FOR SOAP:

Vitamin E (α Tocopherol) easily absorb into the skin. It reduced the skin damage cause by UV radiation. It helps to reduce the brown spots on the face. Vitamin E (α Tocopherol) effective in reducing dark circles and wrinkles of the lower eyelids. Vitamin E (α Tocopherol) which is antioxidant protects the cell from oxidative stress and it heals the damage cellular membrane. It supports the scalp and improves the growth of hair. Vitamin E (α Tocopherol) use for high pigmentation, minimize the production of melanin and lighten 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 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.

KEY WORDS:

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



Round Shape



Fish Shape



Ingredients

Potassium Cocoate

Lauramide DEA

Glycol Stearate

DMDM Hydantoin

Actifilms™

Fragrance

D.I. Water

Disodium Cocoamphodiacetate

Cross Shape



Wt%

25.00

20.0

2.00

1.0

0.2

q.s

q.s

qs

FORMULATION TIP
SOAP

Star Shape