



**N – Revival<sup>®</sup>**  
**PHARMA CHEM**  
Strengthen Polymer Technology



**METHCOAT<sup>®</sup>**

**METHPHOR<sup>®</sup>**

**METHPOL<sup>®</sup>**

**PILLCOAT<sup>®</sup>**

**METHRON<sup>®</sup>**

**METHMER<sup>™</sup>**

**METHXET<sup>™</sup>**

**METHRON<sup>®</sup> P-314**

| Grade                         | Physical Form      | Dissolution Profile       | Advantages  | Recommended Application        |
|-------------------------------|--------------------|---------------------------|---|--------------------------------|
| ENTRERIC COATING              |                    |                           |   |                                |
| METHCOAT <sup>®</sup> L100-55 | Powder             | Dissolution at pH 5.5     | Smooth And Stable Enteric Coating With Fast Dissolution In The Upper Bowel                            | Drug Release in Duodenum       |
| METHCOAT <sup>®</sup> L-30 D  | Aqueous Dispersion |                           |   |                                |
| METHCOAT <sup>®</sup> L-30 DA |                    |                           |   |                                |
| METHCOAT <sup>®</sup> L-100   | Powder             | Dissolution at pH 6.0     | Granulation Of Drug Substances In Powder Form For Controlled Release                                  | Drug delivery in Jejunam       |
| METHCOAT <sup>®</sup> L-12.5  | Organic Solution   |                           |   |                                |
| FILM COATING                  |                    |                           |   |                                |
| METHCOAT <sup>®</sup> E-100   |                    | Soluble in                | Low Viscosity High Pigment  | Insulating coatings for:       |
| METHCOAT <sup>®</sup> E-12.5  | Granules           | gastric juice up to pH5.5 | Blinding Excellent Adhesion Low Weight Gain   | moisture barrier               |
| METHCOAT <sup>®</sup> EPO     | Organic Solution   |                           |   | taste masking                  |
|                               |                    |                           |   | Odor masking,light protection  |
| SUSTAINED-RELEASE COATING     |                    |                           |   |                                |
| METHCOAT <sup>®</sup> RL-100  | Granules           | Insoluble                 | Customized Release Profile By Combinations Of RI And Rs Grades In Different Ratios                    | Sustained release formulation  |
| METHCOAT <sup>®</sup> RL-12.5 | Organic Solution   | High permeability         | Improved Patient Compliance   |                                |
| METHCOAT <sup>®</sup> RLPO    | Powder             | pH independnt swelling    | Cost Effective Processing   |                                |
| METHCOAT <sup>®</sup> RS-100  | Granules           | Insoluble                 |   |                                |
| METHCOAT <sup>®</sup> RS-12.5 | Organic Solution   | low permeability          |   |                                |
| METHCOAT <sup>®</sup> RSPO    | Powder             | pH Independent swelling   |   |                                |
| METHCOAT <sup>®</sup> NE-30 D | Aqueous Dispersion | pH independent swelling   | Improved Patient Compliance Cost Effective Processing   | Sustained release formulations |
| METHCOAT <sup>®</sup> S-100   | Powder             | Dissolution at pH 7.0     | Site Specific Drug Delivery In Intestine By Combination Of Methcoat S Grades Variable Release Profile | Drug delivery in colon         |
| METHCOAT <sup>®</sup> S-12.5  | Organic Solution   |                           |   |                                |
| METHCOAT <sup>®</sup> FS-30 D | Aqueous Dispersion |                           |   |                                |

| Application   | Products   | Discription  |
|---|--|--|
| Enteric Coating   | METHCOAT <sup>®</sup> L100<br>METHCOAT <sup>®</sup> L12.5<br>METHCOAT <sup>®</sup> L100-55<br>METHCOAT <sup>®</sup> L100-55N<br>METHCOAT <sup>®</sup> L30D<br>METHCOAT <sup>®</sup> L30DA<br>METHCOAT <sup>®</sup> ERD   | Solvent System<br>Solvent System<br>Aqueous System<br>Aqueous System<br>Aqueous System<br>Aqueous System<br>Aqueous System   |
| Film coating<br>moisture barrier coating<br>taste masking | METHCOAT <sup>®</sup> E100<br>METHCOAT <sup>®</sup> E100-40<br>METHCOAT <sup>®</sup> E12.5<br>METHCOAT <sup>®</sup> Smart Seal 30D   | Solvent system<br>Solvent system<br>Solvent system<br>Aqueous System   |
| sustained release   | METHCOAT <sup>®</sup> E30D<br>METHCOAT <sup>®</sup> NM30D<br>METHCOAT <sup>®</sup> RLPO<br>METHCOAT <sup>®</sup> RL100<br>METHCOAT <sup>®</sup> RL 30D<br>METHCOAT <sup>®</sup> RSPO<br>METHCOAT <sup>®</sup> RS100<br>METHCOAT <sup>®</sup> RS30D<br>METHCOAT <sup>®</sup> S100<br>METHCOAT <sup>®</sup> S12.5<br>METHCOAT <sup>®</sup> FS30D | Solvent & Aqueous system<br>Aqueous System<br>Solvent system<br>Solvent system<br>Aqueous System<br>Solvent system<br>Solvent system<br>Aqueous System<br>Solvent system<br>Solvent system<br>Aqueous System |



# METHPOL® Carbomer / Acrylates copolymer

METHPOL® rheology modifiers rang is a synthetic high molecular weight cross-linked water soluble polymer of acrylic acid, which is known as “carbomer“ it is widely used in cosmetic, Pharmaceutical and household industries. it is a fine powder, which is soluble in water, alcohol and glycols. before neutralization. pH of Mathpol® grades solution lies between 2.5 to 3.0

| Grade                                      | Physical form | INCI   | Key Benefits  | Application   |
|--|---------------|--|---|---|
| METHPOL® 940<br>METHPOL® 980               | Powder        | Carbomer   | High Viscosity<br>Very High Clarity   | Hair Styling Gels, Aloe vera<br>Gels, Creams, Peel Off Mask   |
| METHPOL® 934<br>METHPOL® 974               | Powder        | Carbomer   | Opaque Gel<br>Short Flow Properties   | Lotion, Toothpastes, Creams   |
| METHPOL® 941<br>METHPOL® 971               | Powder        | Carbomer   | Ionic Tolerance<br>High Clarity Gels  | Lotions, Clean Skin Gels  |
| METHPOL® 956                               | Powder        | Carbomer   | Hydroalcoholic System<br>Medium Viscosity   | Hand Sanitizers,<br>Hydroalcoholic Gels   |
| METHPOL® 990                               | Powder        | Carbomer   | Fast Wetting<br>Short Flow Properties   | Fuel Gels, Home Care<br>Cleaning System   |
| METHPOL® ETD2020                           | Powder        | Acrylates/C10-30 Alkyl<br>Acrylate Cross Polymer               | Fast Wetting<br>High Electrolyte Tolerance  | Shampoos, Face Washes,<br>High Electrolyte Gels, Creams,<br>Lotions, Hand Sanitizers  |
| METHPOL® ULT10                             | Powder        | Carbomer   | Self Wetting, High Viscosity<br>Desirable Sensorial Performance   | Creams, Hair Styling Gels,<br>Lotions, Moisturising Gels  |
| METHPOL® ULT20                             | Powder        | Acrylates/C10-30 Alkyl<br>Acrylate Cross Polymer               | Self Wetting ,excellent Clarity<br>High Electrolyte Tolerance   | Shampoos, Face Wash, High<br>Electrolyte Gels, Cream Lotions  |
| METHPOL® ULT21                             | Powder        | Acrylates/C10-30 Alkyl<br>Acrylate Cross Polymer               | Self Wetting High Viscosity<br>Superior Asthetic Performance  | Creams, High Electrolyte Skin<br>Gels, Moisturizing Gels, Lotions   |
| METHPOL® TR-1                              | Powder        | Acrylates/C10-30 Alkyl<br>Acrylate Cross Polymer               | Medium Emulsification Capacity<br>Hlb Independent<br>Medium Viscosity   | Creams , Lotions, Serums,<br>Sunscreen Products   |
| METHPOL® TR-2                              | Powder        | Acrylates/C10-30 Alkyl<br>Acrylate Cross Polymer               | Higher Emulsification Capacity<br>Hlb Independent Low Viscosity   | Creams, Lotions, Serums,<br>Cleansing Milk  |
| METHPOL® SF-1<br>METHPOL® SF-2             | Liquid        | Acrylates Copolymer  | Easy To Use High Suspending<br>Value Transparent Gel<br>Cost Effective  | Foaming Facial, Cleansers,<br>Transparent Shampoos,<br>Baby Shampoos,<br>Shower Gels, Face Washes                           |
| METHPOL® SF-12                             | Liquid        | Acrylate Copolymer   | Easy To Use Higher Viscosity<br>Transparent Gel Stable Viscosity<br>In High Alkaline System High<br>Ion Tolerance                   | Face wash, Hand Washes,<br>Anti-dandruff Shampoos,<br>Shower Gels, Depilatories<br>Soap Based Formulation,<br>Peel Off Mask |
| METHPOL® Acu22                             | Liquid        | Acrylate/Stearth -20<br>Methacrylate copolymer                 | Use For Surfactant Free<br>Formulation Give Best Strength<br>To Anionic Surfactants System<br>High Curl Activators And<br>Wave Sets | Hair Gels, Emulsifier Free<br>Formulations, Sulphate Free<br>Formulation Creams   |
| METHPOL® Acu28                             | Liquid        | Acrylate/Stearth -25<br>Methacrylate copolymer                 | High Viscosity Stable Viscosity<br>In High Alkaline System High<br>Salt Tolerance   | Hair Gels, Face Washes,<br>Depilatories, Shower Gels,<br>Soap Based Formulations  |
| METHPOL® Acu88                             | Liquid        | Acrylate/Stearth -20<br>Methacrylate<br>Cross Polymer          | High Suspending Value Higher<br>Viscosity Curl Activator  | Hair Gels, Emulsifier Free<br>Formulations, Sulphate Free<br>Formulations, Creams   |
| METHPOL® AT-100                            | Liquid        | Oleyl Amine Ethoxylate   | Acid Compatibility  | Toilete Bowl Cleaner, Anti<br>Acne Creams And Lotions   |
| METHPOL® ST-100                            | Powder        | Acrylic Polymer  | Pre Neutralized Low Ph Stability  | Shampoos, Face Washes,<br>Vaginal Wash  |
| METHPOL® 640 NT                            | Powder        | Sodium Carbomer  | Pre Neutralized Grade<br>Quick Gel Former   | Creams, Lotions,<br>Aloe vera Gels  |
| METHPOL® 641 NT                            | Powder        | Sodium Carbomer  | Preneutralized Grade<br>High Viscosity  | Transparents Gel, Toothpaste,<br>Moisturising Cream, Lotions  |
| METHPOL® SMART 2000<br>METHPOL® SMART 3000 | Liquid        | Acrylates/Beheneth - 25<br>methacrylate/HEMA<br>crosspolymer-2 | Low Ph Systems<br>Low Surfactant Systems<br>Mild Cleansers<br>Soap-based cleansers  | Hand Soap,<br>Intimate Cleansers,<br>Mild Cleansers / Shampoo   |

## METHPOL® Carbomer / Acrylates copolymer

METHPOL® a functional ingredients serves to be used to be oral solid and liquid dosage forms, topical formulations bioadhesive formulations and bulk laxatives. the polymer provide the following functionality in pharmaceutical applications :

**Controlled Release :** METHPOL® Polymers are highly efficient gel matrix formers for controlling drug released in solid doses from the polymer have demonstrated slower drug release at lower concentration than other commercially available excipients, Enabling overall formulation cost smaller tablet size

| Grades        | Pharmacopoeial Monographs                            | (%) Solution<br>(at pH 7.3 - 7.8) | Viscosity# (cps) |
|---------------|--|-----------------------------------|------------------|
| METHPOL® 934P | USP/NF : Carbomer 934P                               | 0.5                               | 29,400 - 39,400  |
| METHPOL® 974P | USP/NF : Carbomer Homopolymer Type B, EP : carbomers | 0.5                               | 25,000 - 45,000  |
| METHPOL® 971G | USP/NF : Carbomer homopolymer Type A                 | 0.5                               | 4,000 - 11,000   |
| METHPOL® 912G | In House   |                                   |                  |

**Rheology Modifiers :** METHPOL® polymers are used at very low concentrations (less than 1%) to produce a wide range of viscosities and flow properties in lotions, creams and gels oral suspensions and in transdermal gel reservoirs.

| Grades        | Pharmacopoeial Monographs                          | (%) Solution<br>(at pH 7.3 - 7.8) | Viscosity# (cps) |
|---------------|--|-----------------------------------|------------------|
| METHPOL® 940  | USP/NF : Carbomer 940                              | 0.5                               | 40,000 - 60,000  |
| METHPOL® 980  | USP/NF : Carbomer Homopolymer Type C               | 0.5                               | 40,000 - 60,000  |
| METHPOL® 934  | USP/NF : Carbomer 934                              | 0.5                               | 30,500 - 39,400  |
| METHPOL® 974  | In House   | 0.5                               | 30,500 - 39,400  |
| METHPOL® 934P | USP/NF : Carbomer 934P                             | 0.5                               | 29,400 - 39,400  |
| METHPOL® 974P | USP/NF : Carbomer Homopolymer Type B EP : Carbomer | 0.5                               | 25,000 - 45,000  |
| METHPOL® 941  | USP/NF : Carbomer 941                              | 0.5                               | 4,000 - 11,000   |
| METHPOL® 971  | USP/NF : Carbomer homopolymer Type A               | 0.5                               | 4,000 - 11,000   |

**Oral Care :** METHPOL® polymers can be used in oral care application such as toothpaste and gels, desensitizing and whitening products this polymer primarily function as afficient thickeners and co-binders at low usage level. the viscoelastic structure of Methpol® polymers imparts shear thinning rheology and low thixotropy which enables a clean ribbon of toothpaste to be extruded from the tube,

| Grades        | Pharmacopoeial Monographs                           | (%) Solution<br>(at pH 7.3 - 7.8) | Viscosity# (cps) |
|---------------|---|-----------------------------------|------------------|
| METHPOL® 980  | USP/NF : Carbomer Homopolymer Type C                | 0.5                               | 40,000 - 60,000  |
| METHPOL® 934P | USP/NF : Carbomer 934P                              | 0.5                               | 29,000 - 39,000  |
| METHPOL® 974P | USP/NF : Carbomer Homopolymer Type B EP : Carbomers | 0.5                               | 25,000 - 45,000  |
| METHPOL® 971P | USP/NF : Carbomer Homopolymer Type A                | 0.5                               | 4,000 - 11,000   |

**Emulsifiers :** emulsification of tropical oil-in-water systems even at elevated temperatures with essentially no need for surfactants.

| Grades        | Pharmacopoeial Monographs          | (%) Solution<br>(at pH 7.3 - 7.8) | Viscosity# (cps) |
|---------------|------------------------------------|-----------------------------------|------------------|
| METHPOL® TR-1 | USP/NF : Carbomer copolymer Type B | 0.5                               | 10,000 - 26,500  |
| METHPOL® TR-2 | USP/NF : Carbomer copolymer Type A | 0.5                               | 4,500 - 13,500   |

**Suspending :** suspending of insoluble ingredients in oral and topical liquids / semisolids.

| Grades         | Pharmacopoeial Monographs | (%) Solution<br>(at pH 7.3 - 7.8) | Viscosity# (cps) |
|----------------|---------------------------|-----------------------------------|------------------|
| METHPOL® ULT31 | In House                  | 1.0                               | 5,500 - 6,000    |

\*benzene free grades

# Viscosity of neutralized solutions is to be measured at 25 °C and 20 RPM

METHPOL® Carbomer / Acrylates copolymer

| Application        | Products  | Discription  |
|--------------------|---|--|
| Controlled Release | METHPOL® 934P<br>METHPOL® 974P<br>METHPOL® 971P<br>METHPOL® 912G<br>METHPOL® 971G             | Binding agent<br>Binding agent<br>High purity grade<br>Granular form<br>Granular form (Direct compression grade)     |
| Rheology Modifier  | METHPOL® 940<br>METHPOL® 980<br>METHPOL® 934<br>METHPOL® 974P<br>METHPOL® 941<br>METHPOL® 971 | Transparent gel<br>Transparent gel<br>Opaque gel<br>Opaque gel<br>Low viscosity clear gel<br>Low viscosity clear gel |
| Oral Care          | METHPOL® 980<br>METHPOL® 934P<br>METHPOL® 974P<br>METHPOL® 971P<br>METHPOL® 956               | Transparent gel<br>Thickening/suspending/Emulsifying<br>Thickening<br>High purity grade<br>Hydroalcoholic gel        |
| Emulsifiers        | METHPOL® TR-1<br>METHPOL® TR-2<br>METHPOL® TR-3   | Low emulsification capacity<br>Medium emulsification capacity<br>High emulsification capacity                        |
| Suspending Agents  | METHPOL® ULT31<br>METHPOL® 934P<br>METHPOL® 974P  | Suspend bulky ingredients<br>Suspensions/Emulsions<br>Suspensions/Emulsionsves                                       |

METHMER™ 3 in 1 Liquid Polymer

METHMER™ is an easy to disperse multifunctional 3 in 1 liquid polymers, especially design to emulsify, thicken and stabilize the oil-in-water emulsion system, which enhances the appearance of personal care formulation. it is HLB independent polymer and efficient to modify rheology of emulsion at low levels . it can be very easily incorporated in gelor cream formulations due to its unique dispersibility properties which allows greater flexibility during processing of formulation.

| Grade         | Physical Form  | INCI  | Key benefits  | Appicattion   |
|---------------|----------------|---|---|---|
| METHMER™ EC-1 | Viscous liquid | Acrylates Copolymer<br>(and) Mineral Oil*<br>(and) Polysorbate - 85   | Multifunctional polymer<br>Preneutralized anionic rheology<br>modifier<br>HLB independent | METHMER EC-1 Polmer is 27 % solids & METHMER EC-2 polymer 20% solid - liquid, pre-neutralized polymer dispersed in oil. it is an easy to use multifunctionl polymer designed for use in skin care and sun care oil in water emulsions - gels, creams lotions, sun creams etc. emulsifier/ Rheology modifier |
| METHMER™ EC-2 | Viscous liquid | Sodium Acrylates<br>Beheneth-25<br>Methacrylate<br>Crosspolymer Hydro<br>Genated Polydecene<br>(and) Lauryl Glucoside | Quick thickening<br>Enhances sensory benefits<br>Low use of level                         |   |

\*Substitute of mineral oil available on request

METHXET™ Cost-effective Hair Fixative

METHXET™ range is a new innovative hair fixative. They are chemically acrylate polymer. They are used in hairstyling gel to improve the hair holding capacity and film foaming at low usage compared to conventional hair fixative polymers. This cost effective range gives long lasting reliable appearance, no flaking and enhanced humidity resistance with improved hair performance in formulation

| Grade                 | Physical Form | INCI                | Key benefits   | Appicattion   |
|-----------------------|---------------|---------------------|--|---|
| METHXET™ N-30         | Powder        | Acrylates polymer   | Excellent curl retension<br>Non yelloing and no flaking<br>no stickiness<br>High humidity resistance | Hair styling gels, styling waxes, pump sprays, hair mouses  |
| METHXET™ N-35D        | Liquid        | Acrylates copolymer | Easy to use<br>Superior hair holding<br>superior humidity resistance<br>high shine                   | Hair styling gels, hair spray                               |
| METHXET™ Superhold II | Liquid        | Acrylates copolymer | Easy to use<br>flaxative-cum-thickner<br>high viscosity<br>high shine                                | Hair styling gels, hair spray<br>styling waxes, hair mouses |



**METHPHOR<sup>®</sup> :** METHPHOR<sup>®</sup> grades are chemically castor oil derivatives. They are non-ionic solublizers and emulsifying agents obtained by reacting hydrogenated castor oil with ethylene oxide. They consist hydrophobic and hydropholic part. They are almost tasteless and odourless. They are used as solublizer for fat soluble vitamins, perfumes, essential oils and other hydrophobic pharmaceuticals. They have ability to solubilize or emulsify oil soluble ingredients and convert them into clear transparent solution or soluble respectively. It improves the solubility of poorly soluble drugs (BCS classII and class IV).

| Grade                      | Physical form  | INCI                                  | Key Benefits   | Application  |
|----------------------------|----------------|---------------------------------------|--|--|
| METHPHOR <sup>®</sup> RH40 | Viscous Liquid | PEG-40 Hydrogenated casotor Oil       | Low Use Of Level Transparency<br>Improver Volatility Retardant<br>Dissolution Improver | Creams, Lotions,<br>Perfumes, Hair Tonics,<br>Lipsticks, Vitamin<br>Solublizer, Emulsifier,<br>Moisturize, Aerosol<br>Formulations |
| METHPHOR <sup>®</sup> RH50 | Viscous Liquid | PG, PEG - 40 Hydrogenated casotor oil | Transparency Improver<br>Improve Moisturizing Effect                                   |  |
| METHPHOR <sup>®</sup> RH60 | Viscous Liquid | PEG-60 hydrogenated casotor oil       | Higher Solubilisation Capacity<br>Better Emulsion Stability<br>Excellent Emollient     |  |
| METHPHOR <sup>®</sup> RH35 | Viscous Liquid | PEG-35 Castor Oil                     | Low Use Of Level Dissolution<br>Improver   |  |

SOLUBILIZER

Methphor range improves water solubility of major water insoluble products. It is compatible with most of the commonly used ingredients. It helps to solubilize different pharmaceutical active ingredients like Acetaminophen, Bromhexine HCL, Dextromethorphan HBr, Povidone iodine, Loxapine Succinate, Vitamins like vitamin A palmitate, vitamin D, vitamin E acetate etc.

DISSOLUTION IMPROVER

It is generally used 3.0% to 5.0% w/w of API to improve dissolution of poorly soluble active ingredients like Cefuroxime Axetil, Cefpodoxime proxetil, Albendazole etc. It should be mixed with API with or without heating and then dissolved in vehicle ( Aqueous / Non aqueous ).

EMULSIFIER

Methphor range is excellent versatile emulsifying agent. It emulsifies major hydrophobic substances like fatty acids, fatty alcohols, mineral oil etc.

MOISTURIZER

Methphor range improves moisturizing effect and soft feeling.

TRANSPARENCY IMPROVER

Methphor range solubilizes insoluble oily substances in aqueous system and hence it improves transparency and shining. In cosmetic formulations, it impacts elegance, appearance of products such as shaving gel, hair styling gel, hand wash gel etc. In pharmaceutical syrup formulations, it improves transparency.

VOLATILITY RETARDANT

Methphor range retards volatilities of solvents. It can be used for highly volatile products like after shav lotion, perfumes etc. to retain its effect for longer period.

FILM FORMER

Methphor range improves film forming capacity and flow properties. Methphor is preferred in cream, lotion, lipstick etc. to improve film forming capacity.

MASKING AGENT

Methphor masks unpleasant taste and odor of typical formulations like pharmaceutical syrup containing alcohols and suspension like artemether and lumefantrine suspension.

AEROSOL FORMULATIONS

Methphor improves solubility of the propellant in aerosol in aqueous phase.

PILLCOAT® is one step, pre-blended ready to use coating material. It is based on well known pharmaceutically accepted polymers, opacifiers, pigments and plasticizers and is optimized to be compatible with any coating equipment. Our range is available in clear, white and full color range offering all benefits to Pharmaceutical, Nutraceutical and Ayurvedic solid dosage forms. Different shades are made up with quality certified lakes, iron oxides and natural colors. Ready-To-Use Coating Material system is a very cost effective and provides customers with full range of coating solutions.

| Application               | Products   | Discription  | Recommendent Application  |
|---------------------------|--|--|---|
| Film Coating              | PILLCOAT® FC2S<br>PILLCOAT® FC2A<br>PILLCOAT® Rapid<br>PILLCOAT® FC2AS   | Solvent System<br>Aqueous System<br>Aqueous System<br>Solvent & Aqueous system | Azithromycin, Amlodipine, Amoxicillin, Ciprofloxacin, Cimetidine, Calcium, Cetirizine, Diltiazem, Erythromycin, Fexofenadine, Ibuprofen, Losartan, Norfloxacin, Ofloxacin, Tinidazole etc.  |
| Enteric Coating           | PILLCOAT® EC2S<br>PILLCOAT® EC2A   | Solvent system<br>Aqueous System   | Aspirin, Pantoprazole, Rabeprazole, Omeprazole, Esomeprazole, Sodium valproate, Diclofenac sodium, Naproxen, Garlic tablets etc.  |
| Moisture-barrier Coating  | PILLCOAT® MB2S<br>PILLCOAT® MB2A   | Solvent system<br>Aqueous System   | Ranitidine, Atorvastatin, Vitamins, Ayurvedic tablets etc.  |
| Transparent Coating       | PILLCOAT® FC2AS(Clear)<br>PILLCOAT® MB2S(Clear)<br>PILLCOAT® EC2A(Clear) | Solvent & Aqueous system<br>Solvent system<br>Aqueous System                   | Vitamins, Ayurvedic, Herbal, Traditional Chinese & Unani medicine tablets etc.  |
| Seal Coating              | PILLCOAT® SC2S<br>PILLCOAT® SC2A   | Aqueous System<br>Aqueous System   | Vitamins, Ayurvedic tablets, Herbal, Aspirin, Pantoprazole, Rabeprazole, Omeprazole, Esomeprazole, Sodium valproate, Diclofenac sodium tablets  |
| Flavor Coating            | PILLCOAT® FL2A   | Solvent system   | Vitamins, Ayurvedic, Herbal, Traditional Chinese & Unani medicine tablets etc.  |
| Sugar Coating             | PILLCOAT® FC2A-B1  | Aqueous System   | Pillcoat is a high gloss, aqueous sugar film coating system that connects the art of conventional sugar coating with the science and automation of film coating. The result is improved quality and reproducibility, with a high gloss finish delivered in a fraction of the time taken with traditional sugar coating. |
| Faster sugar film coating | PILLCOAT® FSC  |  |   |
| Sweet Coating             | PILLCOAT® SW2S<br>PILLCOAT® SW2A   | Solvent system<br>Aqueous System   | Vitamins, Ayurvedic, Herbal, Traditional Chinese & Unani medicine tablets etc.  |
| Pearlescent Coating       | PILLCOAT® Pearl  | Solvent & Aqueous system   | OTC products, Nutraceuticals Herbals, etc.  |
| Gloss Coating             | PILLCOAT® Glow   | Solvent & Aqueous system   | Applicable for film coated products for asthetic value.   |
| Tio2 Free film Coating    | PILLCOAT® TFC  | Aqueous system   | Tablets, gummies, soft gels, hard caps  |

## METHRON® P-314 Polacrillin Potassium

METHRON® P-314 is derived from cross linked polymer of Polycarboxylic acids as per USP/NF and has K<sup>+</sup> ionic form. It is a very high purity polymer based pharmaceutical formulations as a super fast disintegrant as well as dissolution improver i in solid dosage form like tablets, capsules pellets etc. it is suitable for the both wet granulation as well as direct compression system for tablet formulations.

Methron P-314 is a new innovative superfast disintifrant specially design for acidic drugs which enhances disintegration and dissolution of formulations.

### Application

As disintegrating agent: Methron P-314 has a very high swelling tendency of hydration either in contact with water or G.I. fluids causing fast disintegration without the formulation of lumps and thus acts as an effective tablet super disintegrant. Required quantity is from 0.5 % to 4.0 % to get fast disintegration. It can be used during mixing and/or at lubrication stage.

Eg. Immediate release tablets, Herbal tablets, Mouth dissolving tablets etc.

As Dissolution Improver : Methron P-314 breaks the tablets into very smaller particles, thus it increases the effective surface area for the absorption of the active substances and thus it increases the dissolution and bioavailability of the active substances. Required quantity is from 2.0 % to 10.0 % for dissolution Improvement.

Eg. Cefuroxime Axetil, Cefpodoxime Proxetil, Atorvastatin Calcium, Telmisartan, Glimepiride, Gliclazide, Ondansetron etc

## METHRON® Cross - linked polymer

METHRON® range is derived from cross linked polyacrylic polymer used in pharmaceutical industry for taste masking of bitter drug and for stabilization of drug. It is white to off white fine powder, swellable in water. Taste masked complex for formulations of bitter drug can be used for following formulations:

Suspensions - Immediate and extended release

Dry syrup

Mouth dissolving tablet/ Dispersible tablet/ Chewable tablet

| Application  | Products  | Description   |
|--|---|---|
| Taste-masking of bitter drugs<br>(Traditional Grades)<br>(Polacrilline Potassium) -<br>(Calcium polystyrene sulfonate) -<br><br>(sodium polystyrene sulfonate) - | METHRON® P-104<br>METHRON® P-114<br>METHRON® P-134<br>METHRON® CPS-3<br><br>METHRON® SPS-3<br>METHRON® P-159  | Cefixime, Lornoxicam, Linezolid etc.<br>Ofloxacin, Norfloxacin etc.<br>Sildenafil Citrate, Ondansetron etc.<br>Erythromycin Ethyl Succinate,<br>Aceclofenac, Hyoscine butyl bromide etc.<br>Hyperkalemia (as an active)<br>Erythromycin Stearate etc. |
| Taste-masking of bitter Drugs<br>(Drug Specific grades)  | METHRON® P-135 (AZ)<br>METHRON® P-135 (CP)<br>METHRON® P-135 (RX)<br>METHRON® P-134 (DR)<br>METHRON® P-114C<br>METHRON® P-114A<br>METHRON® P-114N<br>METHRON® P-142 | Azithromycin Dihydrate<br>Ciprofloxacin Hydrochloride<br>Roxithromycin<br>Zinc Sulphate, Sildenafil Citrate<br>Cefuroxime Axetil, Cefpodoxime Proxetil<br>Chloroquine Phosphate, Quinine Sulphate<br>Nicotine Polacrilex USP<br>Norfloxacin           |
| Taste-masking of bitter drugs<br>(Ready to use grades)   | METHRON® P-111N<br>METHRON® P-112N<br>METHRON® P-112BN<br>METHRON® P-113<br>METHRON® P-115  | Ciprofloxacin Hydrochloride (250 mg/5 ml)<br>Azithromycin Dihydrate (100 mg/5 ml)<br>Azithromycin Dihydrate (200 mg/5 ml)<br>Ibuprofen (100 mg/5 ml)<br>Famotidine HCl  |

## COMPANY INTRODUCTION

**N - Revival Pharma Chem** is one of the world's renowned and fast emerging company in the field of Acrylic acid based speciality Polymers for industries like Pharmaceutical, Nutraceutical, Cosmetic, Food, Herbal, Ayurvedic etc. It was established in MAY, 2014 and located at India's largest chemical belt i.e. Chhatral (Gujarat). **N-Revival Pharma Chem** has R&D facility speciality polymer consultancy services & technology transfer facility as well as its manufacturing unit too.

**N - Revival Pharma Chem** has footprint in many countries and by its continuous efforts, new innovations and better services, the company satisfies its customer's expectations and thus is always one step ahead.

### VISION

- ❖ **N - Revival Pharma Chem** dedicates itself to offering cutting edge polymer technology solutions. The company shall strive to be the leader in the segments by focusing on R&D Facility & worldwide technology transfer facility.

### MISSION

- ❖ We, at the **N-Revival Pharma Chem** are committed to exceeding the expectations of our customers by providing quality products and speciality polymer technology transfer exceptional services along with continuous improvement and innovation with positive attitude.

### R&D CENTER

- ❖ State of art R&D center
- ❖ Cost effective and customized solution
- ❖ Continuous innovation with the principles of sustainability
- ❖ Provides polymer for various applications
- ❖ Delivers a broad range of technology based products and solutions

### TEAM

- ❖ Techno entrepreneur leading company
- ❖ High skilled and experienced
- ❖ Technical persons customer oriented
- ❖ Delivering on commitments with highest standard

### SERVICES

- ❖ Speciality polymer Consulting services
- ❖ Technology transfer speciality polymers
- ❖ Research & Development (R&D)
- ❖ Infrastructure Development

### MANUFACTURING FACILITIES

- ❖ Manufacturing equipments are fully automatic/semi automatic systems
- ❖ Dedicated quality control laboratory equipped with sophisticated instruments to carry out instruments
- ❖ Chemical and microbial testing
- ❖ Designed to meet the stringent requirements of the regulated market

### ACCREDITATIONS

- ❖ ISO 9001:2015 Certified
- ❖ cGMP
- ❖ KOSHER
- ❖ HALAL
- ❖ HACCP



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