

# Application Manual

This application manual consists of all the details related to our products used for different types of application. It also consists of step wise application process details along with product description.

**Manufacturing**

**Largest variety of Construction Chemicals**

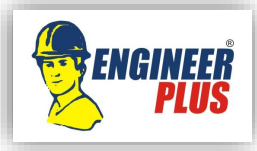
**Since 1991**

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**Waterproofing | Heatproofing | Admixtures | Paints**



an **“ENGINEER”**  
can keep a  
**“DOCTOR”** away...



## CRACK REPAIRING WITH CRPS 99 with Crack Fill Paste

### Expansion & Other Structural joint filling with CRPS-99.

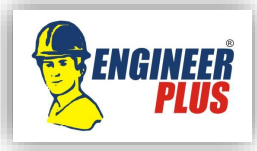
#### DESCRIPTION OF CHEMICALS

**CRPS-99:** Forms a tough elastic rubber like seal. Accommodates continuous and pronounced cycle movement. High resistance to aging influences, physical damage and climate extremes. Good adhesion to most buildings materials. Resistant to temperature UV rays, ozone and weather conditions. Has a movement capability of +25% width joints.

#### APPLICATION PROCESS

1. Clean the surface by rubbing with wire brush to remove dust, and others. Wash with clean water.
2. First we have to fix these cracks with the help of grinder. We open these cracks and bring them to V groove shape.
3. Now we pour Aquaprime-99 into these cracks. till saturation.
4. After this we will fill CRPS-99 in these cracks

Note: For the consumption details kindly refer to our Technical data sheet present in our main company profile of products. Or kindly download the TDS of the product from our website [www.engineerplus.in](http://www.engineerplus.in)



## CRACK REPAIRING WITH CRACK FILL PASTE

### Expansion & Other Structural joint filling with CRPS-99.

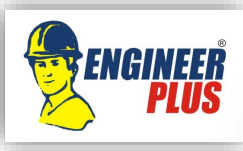
#### DESCRIPTION OF CHEMICALS

**Engineer plus Crack Fill Paste** is a ready to use fiber glass reinforced crack filling compound for both interior and exterior surfaces. It ensures unmatched crack bridging ability for plaster cracks of up to 3 mm.

#### APPLICATION PROCESS

1. Clean the surface by rubbing with wire brush to remove dust, and others. Wash with clean water.
2. First we have to fix these cracks with the help of grinder. We open these cracks and bring them to V groove shape.
3. Now we pour Aquaprime-99 into these cracks. till saturation.
4. After this we will fill crack fill paste in these cracks

Note: For the consumption details kindly refer to our Technical data sheet present in our main company profile of products. Or kindly download the TDS of the product from our website [www.engineerplus.in](http://www.engineerplus.in)



## SMART COAT Waterproofing (3 Layer Coating on Rough Surface)

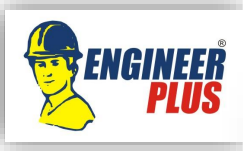
### DESCRIPTION OF CHEMICALS

**Smart Coat** : Engineer Plus Smart Coat is a fiber reinforced elastomeric liquid applied water proofing membrane. It is formulated with select elastomeric and resilient acrylic polymers and reinforcing polyester fibers. Upon curing, it forms a thick, seamless, durable membrane thus offering ultimate waterproofing. Can be used for building roofs, terraces, parapet, sunshades and exterior vertical walls. It can also be applied on existing IPS, sound brick-bat Coba or cementitious waterproofing.

### APPLICATION PROCESS

1. Clean the surface by rubbing with wire brush & other mechanical tools to remove dust, and other loose materials. Repairing of Cracks work will be carried out as per requirement on terrace by Crack Fill Paste
2. Apply a self-priming 1<sup>st</sup> coat of Smart Coat (diluted with water in 2:1 ratio.)
3. Apply 2<sup>nd</sup> & 3<sup>rd</sup> perpendicular coats of Smart Coat without dilution. Highly waterproofing & crack resistant coating)

Note: For the consumption details kindly refer to our Technical data sheet present in our main company profile of products. Or kindly download the TDS of the product from our website [www.engineerplus.in](http://www.engineerplus.in)



## SMART COAT Waterproofing (3 Layer Coating on Smooth Surface)

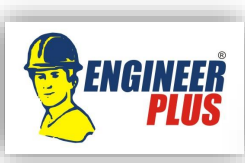
### DESCRIPTION OF CHEMICALS

**Smart Coat** : Engineer Plus Smart Coat is a fiber reinforced elastomeric liquid applied water proofing membrane. It is formulated with select elastomeric and resilient acrylic polymers and reinforcing polyester fibers. Upon curing, it forms a thick, seamless, durable membrane thus offering ultimate waterproofing. Can be used for building roofs, terraces, parapet, sunshades and exterior vertical walls. It can also be applied on existing IPS, sound brick-bat Coba or cementitious waterproofing.

### APPLICATION PROCESS

1. Clean the surface by rubbing with wire brush & other mechanical tools to remove dust, and other loose materials. Repairing of Cracks work will be carried out as per requirement on terrace by Crack Fill Paste
2. Apply 1<sup>st</sup> Coat of Aquaprime-99 And Cement
3. Apply 2<sup>nd</sup> & 3<sup>rd</sup> perpendicular coats of Smart Coat without dilution. Highly waterproofing & crack resistant coating)

Note: For the consumption details kindly refer to our Technical data sheet present in our main company profile of products. Or kindly download the TDS of the product from our website [www.engineerplus.in](http://www.engineerplus.in)



## Flexi COAT Waterproofing (4 Layer Coating)

### DESCRIPTION OF CHEMICALS

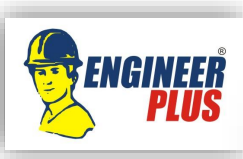
**Aquaprime-99** :Aqua prime- 99™ plays major role in facade coating system . It forms a dry water repellent zone beneath the coating consolidate the substrate and enhance bonding of the coating. It is gas permeable, durable, protects paints & plasters against harmful influences form within the masonry.

**Flexi Coat Black:** Engineer Plus Flexi Coat is Cold applied liquid, waterproofing membrane, specially designed from a blend of special resin and rubber reinforced with special water repelling fillers, minerals, stabilizers and gelling agent.

### **APPLICATION PROCESS**

1. Clean the surface by rubbing with wire brush & other mechanical tools to remove dust, and other loose materials. Repairing of Cracks work will be carried out as per requirement on terrace by Crack Fill Paste
2. Apply 1<sup>st</sup> Coat of Aquaprime-99 And Cement
3. Apply a self-priming 2<sup>nd</sup> coat of Flexi Coat (diluted with water in 1:1 ratio.)
4. Apply 3<sup>rd</sup> & 4<sup>th</sup> coats of Flexi Coat without dilution. Highly waterproofing & crack resistant coating with elastomeric properties.

Note: For the consumption details kindly refer to our Technical data sheet present in our main company profile of products. Or kindly download the TDS of the product from our website [www.engineerplus.in](http://www.engineerplus.in)



# India's No. 1 Asli Waterproofing (7 Layer coating)

## DESCRIPTION OF CHEMICALS

**(1) Aquasil-99:** Anti-Fungal, Penetrative & Nano technology of waterproofing Drastic Reduction in masonry maintenance cost with long term improved resistance to vagaries of weather. Protects Building , saves energy, keeps Substrate dry reducing the thermal conductivity. A water dilutable solution designed to impart repellency to masonry surface.

**(2) Aquaprime-99 :**Aqua prime- 99™ plays major role in facade coating system . It forms a dry water repellent zone beneath the coating consolidate the substrate and enhance bonding of the coating. It is gas permeable, durable, protects paints & plasters against harmful influences form within the masonry.

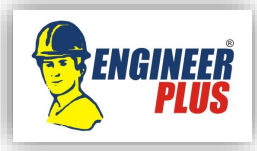
**(3) WAC-99:** A highly concentrated latex emulsion for waterproofing applications as well as protective coating to cementations substances. WAC-99 is mixed with water & cement in 1:1:2.5 by wt. It is highly economical comparatively to any such product available in the market.

**(4) ICS-99:** Ready to use Seal immediately on contact with water. Effective crack sealing in concrete & masonry surfaces .Can stop the leaking dripping water, until the final repairs are carried out. Hardens instantly under continuous wet conditions.

**(5) Fiber mash:** To strengthen & for reinforcement purpose. It is highly resistant to weather and sunlight. It is an elastomeric mash, forms a very tough bond with subtract having good permeability rating. Resistant to high alkali, mild acids, sulphates, salts, carbon dioxide.

**(6) WPC-99:** A boon for modern living. An amazing, powerful chemical to stop water leakage and dampness from cement concrete structure. High resistance to water, High mechanical strength, High scrub and impact resist.



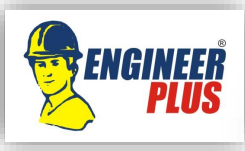


# APPLICATION PROCESS

## Waterproofing Procedure for Horizontal Surface

1. Clean the surface by rubbing with wire brush & other mechanical tools to remove dust, and other loose materials. Repairing of Cracks work will be carried out as per requirement on terrace by Crack Fill Paste
2. Apply 1<sup>st</sup> Coat.( Nano Coat) Engineer Plus Aquasil-99, Engineer Plus Aquaprime-99 & water. (1:2:20)
3. Apply 2<sup>nd</sup> Coat of Fiber Mesh
4. Apply 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> coating of Engineer plus WAC-99 & Engineer plus ICS-99, cement (1:1:2).
5. Apply 6<sup>th</sup> Coat with Engineer Plus WPC-99 and water (1:1)
6. Apply 7<sup>th</sup> Coat of Engineer Plus Engineer Plus WPC 99, Aquasil-99 & water (1:1:0.1).





## India's No. MAKE UP Your Terrace (9 Layer coating)

### DESCRIPTION OF CHEMICALS

**(1) Aquasil-99:** Anti-Fungal, Penetrative & Nano technology of waterproofing Drastic Reduction in masonry maintenance cost with long term improved resistance to vagaries of weather. Protects Building , saves energy, keeps Substrate dry reducing the thermal conductivity. A water dilutable solution designed to impart repellency to masonry surface.

**(2) Aquaprime-99 :**Aqua prime- 99<sup>TM</sup> plays major role in facade coating system . It forms a dry water repellent zone beneath the coating consolidate the substrate and enhance bonding of the coating. It is gas permeable, durable, protects paints & plasters against harmful influences form within the masonry.

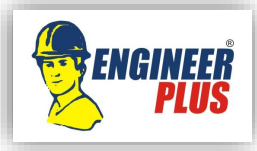
**(3) WAC-99:** A highly concentrated latex emulsion for waterproofing applications as well as protective coating to cementations substances. WAC-99 is mixed with water & cement in 1:1:2.5 by wt. It is highly economical comparatively to any such product available in the market.

**(4) ICS-99:** Ready to use Seal immediately on contact with water. Effective crack sealing in concrete & masonry surfaces .Can stop the leaking dripping water, until the final repairs are carried out. Hardens instantly under continuous wet conditions.

**(5) Fiber mash:** To strengthen & for reinforcement purpose. It is highly resistant to weather and sunlight. It is an elastomeric mash, forms a very tough bond with subtract having good permeability rating. Resistant to high alkali, mild acids, sulphates, salts, carbon dioxide.

**(6)HPC-99:** It is a matchless heat proof compound which wonderfully works on masonry surface. It stops heat penetration and keeps cool by reflecting more than 90% heat of the sun from surface. It makes you comfortable to walk on, to live with and to save electric energy. It keeps water cool in any type of water storage tank.

**(7)TR.WPC-99:** A boon for modern living. An amazing, powerful chemical to stop water leakage and dampness from cement concrete structure. High resistance to water, High mechanical strength, High scrub and impact resistance.



# APPLICATION PROCESS

## APPLICATION PROCESS

1. Clean the surface by rubbing with wire brush & other mechanical tools to remove dust, and other loose materials. Repairing of Cracks work will be carried out as per requirement on terrace by Crack Fill Paste.
2. Apply 1<sup>st</sup> Coat.( Nano Coat) Engineer Plus Aquasil-99, Engineer Plus Aquaprime-99 & water. (1:2:20)
3. Apply 2<sup>nd</sup> Coat of Fiber Mesh.
4. Apply 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> coating of Engineer plus WAC-99 & Engineer plus ICS-99, cement (1:1:2).
5. Apply 6<sup>th</sup> coat of HPC-99 & Water in the ratio of (1 : 0.1).
6. Then apply 7<sup>th</sup> & 8<sup>th</sup> coat of Pure HPC-99 layer for giving Final touch with Color as required by client.
7. Then apply final 9<sup>th</sup> coat of TR.WPC—99 protective layer for 100%UV resistant coating.





## PU-5 – Waterproofing for Water Tank / Swimming Pool from Inside

### DESCRIPTION OF CHEMICALS

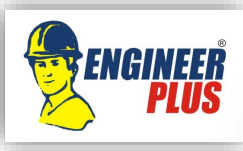
(1) **WAC-99:** A highly concentrated latex emulsion for waterproofing applications as well as protective coating to cementations substances. WAC-99 is mixed with water & cement in 1:1:2.5 by wt.

(2) **ICS-99:** Ready to use Seal immediately on contact with water. Effective crack sealing in concrete & masonry surfaces .Can stop the leaking dripping water, until the final repairs are carried out. Hardens instantly under continuous wet conditions.

(3) **GIPUA (PU COATING):** It is a two component aliphatic urethane with exceptional resistance to chemicals and ultraviolet light. Each component is factory packaged in ratio & ready for onsite mixing. The resin component is colored differently and hardener is clear to give a visual on complete mixing prior to use.

### **APPLICATION PROCESS**

1. Clean the surface by rubbing with wire brush & other mechanical tools to remove dust, and other loose materials. Repairing of Cracks work will be carried out as per requirement on terrace by Aquaprime-99 & Cement.
2. Apply 1<sup>st</sup> coat of Aquasil 99 with Aquaprime 99 with water.
3. Apply 2<sup>nd</sup> & 3<sup>rd</sup> coating of Engineer plus WAC-99 & Engineer plus ICS-99 with cement.
4. Apply 4<sup>th</sup> & 5<sup>th</sup> Coating of Engineer Plus Gipua



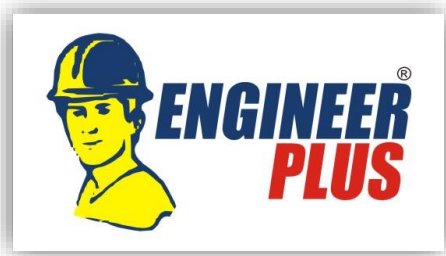
## PU-7 – Waterproofing for Water Tank / Swimming Pool from Inside

### DESCRIPTION OF CHEMICALS

- (1) **WAC-99:** A highly concentrated latex emulsion for waterproofing applications as well as protective coating to cementations substances. WAC-99 is mixed with water & cement in 1:1:2.5 by wt.
- (2) **ICS-99:** Ready to use Seal immediately on contact with water. Effective crack sealing in concrete & masonry surfaces .Can stop the leaking dripping water, until the final repairs are carried out. Hardens instantly under continuous wet conditions.
- (3) **GIPUA (PU COATING):** It is a two component aliphatic urethane with exceptional resistance to chemicals and ultraviolet light. Each component is factory packaged in ratio & ready for onsite mixing. The resin component is colored differently and hardener is clear to give a visual on complete mixing prior to use.

### **APPLICATION PROCESS**

1. Clean the surface by rubbing with wire brush & other mechanical tools to remove dust, and other loose materials. Repairing of Cracks work will be carried out as per requirement on terrace by Aquaprime-99 & Cement.
2. Apply 1<sup>st</sup>, .( Nano Coat) Engineer Plus Aquasil-99, Engineer Plus Aquaprime-99 & water.
3. Apply 2<sup>nd</sup> & 3<sup>rd</sup> coating of Engineer plus WAC-99 & Engineer plus ICS-99 with cement & Fiber mesh
4. Apply 4<sup>th</sup> & 5<sup>th</sup> Engineer plus WAC-99 & Engineer plus ICS-99 with cement (Highly waterproofing & crack resistant coating).
5. Apply 6<sup>th</sup> and 7<sup>th</sup> Coating of Engineer Plus Gipua



# Rules & More

All the application process mentioned in this manual are standard application process designed for the best quality of waterproofing as per your requirement. We request you to kindly refer our company profile product catalogue to know more about the technical data of all the chemicals mentioned in this manual. All the warranties and claims shall be accepted only if the application is done as mentioned in this manual.

**For more details you can mail us on**  
**[maharashtra@engineerplus.in](mailto:maharashtra@engineerplus.in)**