



# ADDING MAGIC TO **ADDITIVES**



Engineered for Performance,  
Innovated for Sustainability!

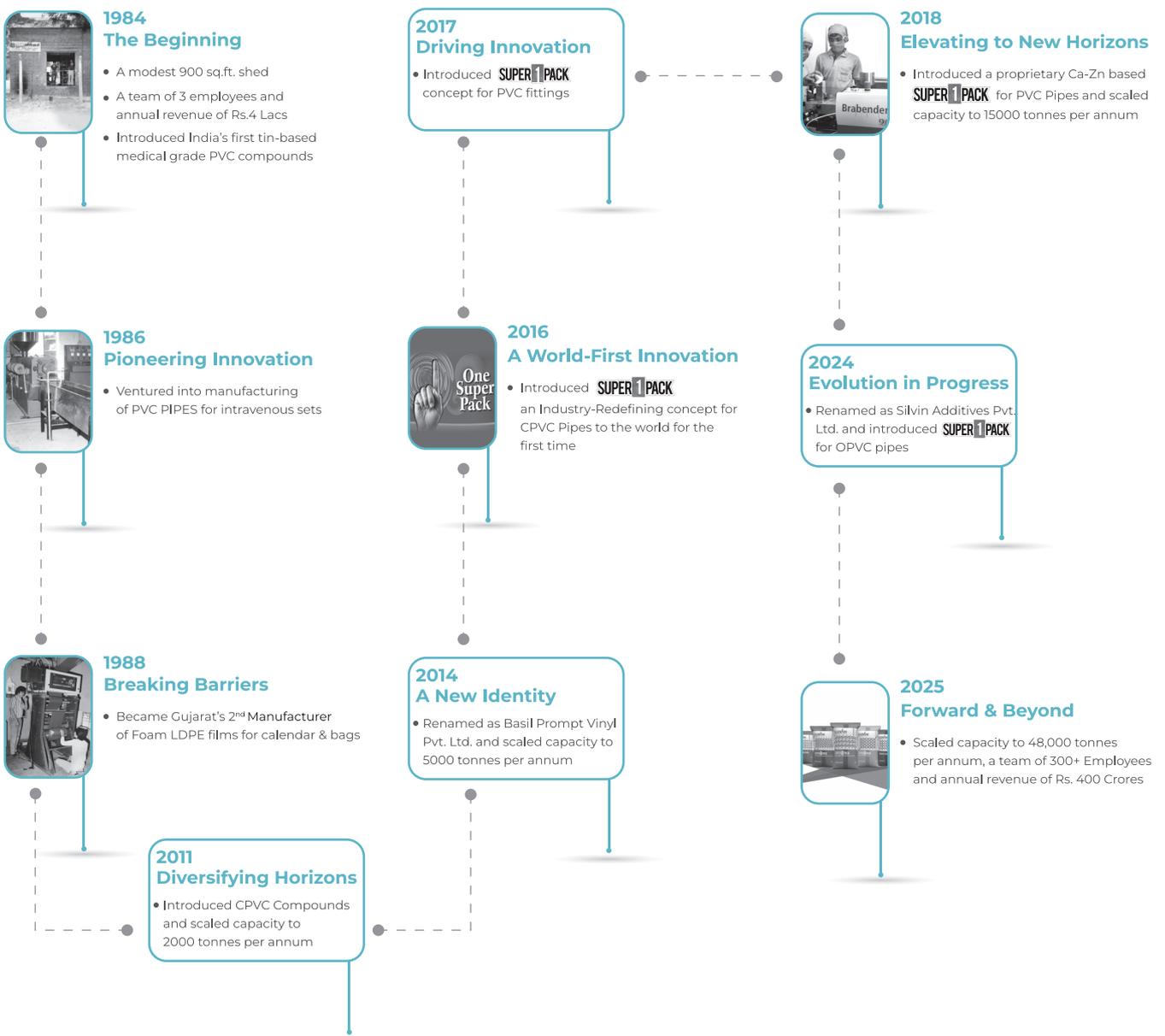


## ABOUT SILVIN

Silvin Additives Pvt. Ltd. is a leading manufacturer of lead-free additive solutions for the PVC and CPVC piping industry. With over three decades of expertise, Silvin has earned the trust of manufacturers across India and 10+ global markets.

Its flagship innovation, Super1Pack, simplifies additive chemistry by combining multiple additives into a single, ready-to-use pack-ensuring consistent quality, smoother processing, and hassle-free inventory management. This is supported by a state-of-the-art R&D and manufacturing facility in Gujarat, powered by SAP and Salesforce-enabled operations.

Building on this expertise, Silvin now offers OnePack and Super1Pack solutions for OPVC Pipes & uPVC Window Profiles. Developed in-house, these formulations provide optimal thermal stability, structural strength, and superior surface finish for demanding outdoor applications.



## SILVIN SUPERIPACK

At Silvin, we have always believed that innovation is not just about improving products - it is about reimagining the process through the lens of material science and chemistry. Our flagship solution, SuperIPack, is a testament to this approach, bringing depth of formulation expertise and process efficiency together to transform PVC manufacturing.

SuperIPack is an advanced, all-in-one additive system designed to simplify production while enhancing performance. Each pack combines stabilisers, internal and external lubricants, impact modifiers, and a carefully balanced mix of other essential additives - everything your process needs, except resin, and pigments. Depending on application requirements, SuperIPack is available in Calcium-Zinc or Methyl Tin Stabiliser-based formulations. This flexibility ensures optimum results across a wide spectrum of products.



**Super saver on time & labour**



**No surprise in prices**



**On time delivery**



**Strategic sourcing, scalable production**



**Technical assistance for pre & post orders**



### SUPERIPACK - PVC PIPES

**Ideal for**

Plumbing, Agriculture, SWR, Column / Riser and Conduit Pipes.



### SUPERIPACK - CPVC PIPES & FITTINGS

**Ideal for**

Hot and Cold Water Plumbing System.



Certified to NSF Guideline 533 for ingredients used in Drinking Water Products



### SUPERIPACK - PVC FITTINGS

**Ideal for**

Plumbing, Agriculture, SWR and Conduit Fittings.



### SUPERIPACK - GENERIC PRODUCTS

**Ideal for**

OPVC Pipes & uPVC Window Profile.

## MIXING PROCESS

Silvin's SuperIPack is engineered to bring a remarkable level of control and consistency to the production of PVC pipes and fittings. By allowing the formulation to blend evenly at lower, more stable mixing temperatures, it minimises thermal degradation and promotes uniform dispersion of every ingredient. This precise balance in the compounding stage directly enhances the quality of the end product - ensuring smoother surfaces, stronger walls, and a more reliable performance across every batch. Manufacturers using SuperIPack achieve cleaner, defect-free output across extrusion and injection moulding, along with measurable gains in strength, durability, and dimensional accuracy.

## KEY ADVANTAGES FOR PIPE & FITTINGS



### Superior Surface Finish

Balanced lubricants ensure smooth melt flow and uniform dispersion for flawless, glossy extrusions.



### Higher Output at Lower Dosage

Precisely balanced additives deliver the required performance at lower dosage, enabling higher output and better cost efficiency.



### Dimensional Accuracy

Optimised additive balance lowers internal stress during extrusion, reducing shrinkage and distortion.



### Exceptional Mechanical Properties

Impact modifiers and stabilisers enhance rigidity, toughness, and pressure performance across applications.



Products manufactured using Silvin additives

## ADVANTAGES OF SILVIN SUPERIPACK FOR WINDOW PROFILES



### Flawless Surface & Gloss

Controlled lubrication delivers smooth, streak-free, high-gloss profiles.



### Enhanced Strength & Stability

Impact modifiers and heat stabilisers create tough, warp-resistant sections.



### Consistent Whiteness & Colour Stability

High-grade TiO<sub>2</sub> and UV protection maintain brightness and resist yellowing.



### Reliable Extrusion Performance

Balanced formulation prevents die build-up and ensures uniform wall thickness for stable, predictable processing.

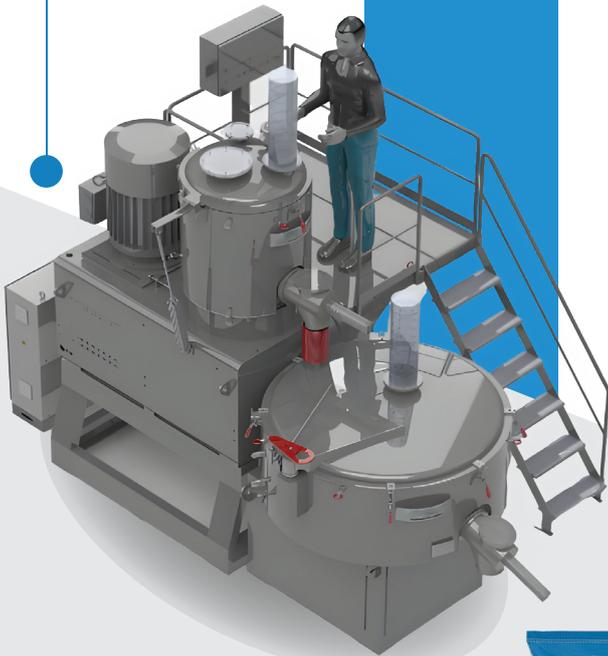


FOR PVC PIPES & PIPE FITTINGS

## conventional method

- PVC Pipe/Fitting Resin
- Lead or Calcium/Zinc One Pack
- Calcium Carbonate
- Titanium Dioxide
- PE Wax
- Pigment
- Impact Modifier
- Processing Aid
- Internal Lubricant
- External Lubricant
- Tin Stabiliser
- Stearic Acid

Mixing Temp.  
@115°C



## sivin method

**SUPER 1 PACK**

(Ca-Zn / Methyl Tin based)

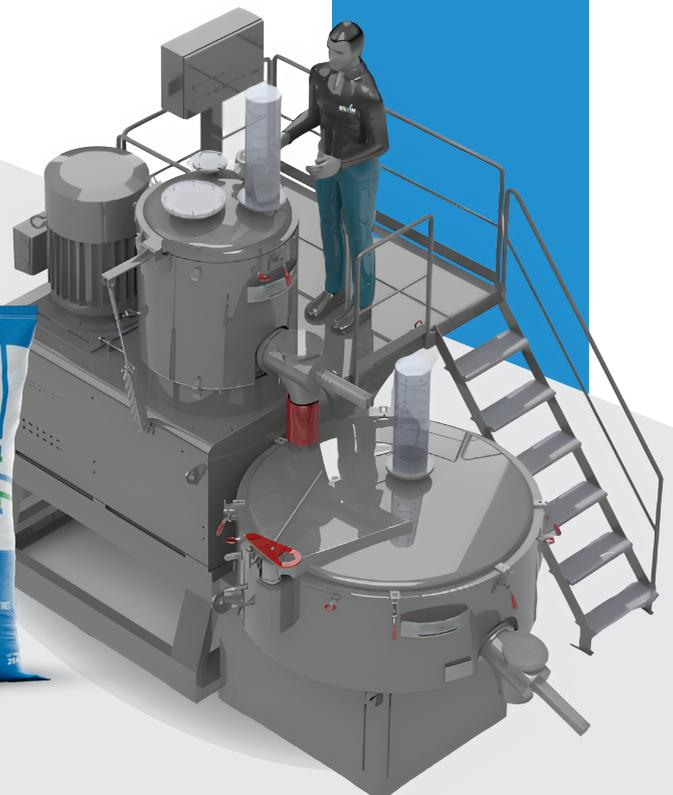
- PVC Pipe/Fitting Resin
- Pigment

Mixing Temp.  
@95°C

Energy/Time  
Saving upto 25%

Run the Mixer for  
4-5 minutes.

Cool it in Cooler  
Mixer till 40°C temp.



FOR CPVC PIPES & PIPE FITTINGS

## conventional method

CPVC Pipe/Fitting Resin

Titanium Dioxide

Internal Lubricant

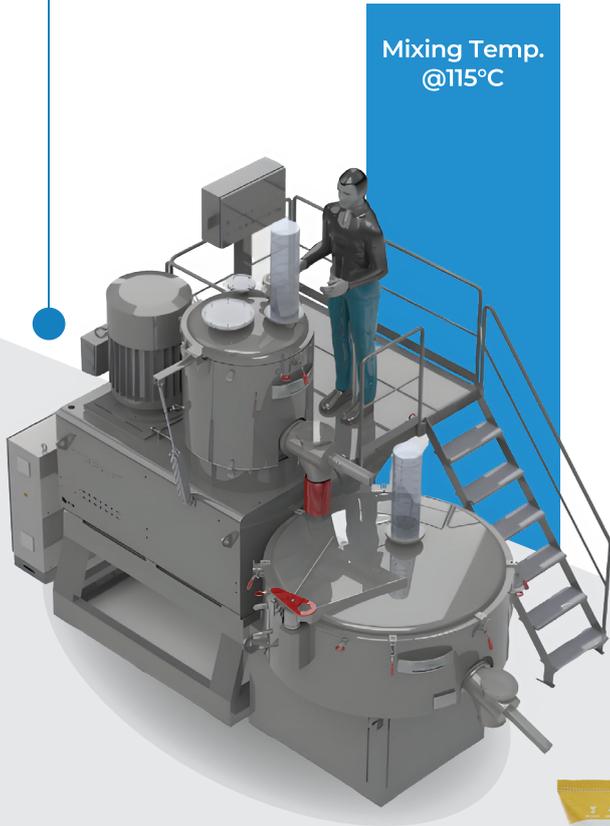
External Lubricant

Pigment

Impact Modifier

Processing Aid

Tin Stabiliser



## silvin method

**SUPER 1 PACK**

(Methyl Tin based)

CPVC Pipe/Fitting Resin  
(with/without color)

Mixing Temp.  
@95°C

Energy/Time  
Saving upto 25%

Run the Mixer for  
4-5 minutes.

Cool it in Cooler  
Mixer till 40°C temp.



## PRODUCT RANGE & STANDARD DOSAGE GUIDE

### PRODUCT RANGE - PVC

For PVC Pipes : Ca - Zn Based									
Sr. No.	Product Application	Dosage (PHR)	Resin User-add(kg)	CaCO <sub>3</sub> (PHR)	TiO <sub>2</sub> (PHR)	PE Wax (PHR)	Pigment (PHR)	Impact Modifier/ CPE (PHR)	Processing Aid <sup>^</sup> (PHR)
1	Pipes (UA 1199 WT)	2.7 – 3.6	100	User-add	User-add	User-add	User-add	User-add	User-add
SuperIPack for PVC Fittings : Methyl Tin Based									
Sr. No.	Product Application	Dosage (PHR)	Resin User-add(kg)	CaCO <sub>3</sub> (PHR)	TiO <sub>2</sub> (PHR)	PE Wax (PHR)	Pigment (PHR)	Impact Modifier/ CPE (PHR)	Processing Aid <sup>^</sup> (PHR)
1	Agri./SWR (RP G 67 D1 WTCC)	6	100	User-add	User-add	✓	User-add	✓	✓
2	Agri./SWR (RP G 67 V80)	12	100	✓	✓	✓	User-add	✓	✓
3	Plumbing (SP G 67 ASM1)	6	100	User-add	User-add	✓	User-add	✓	✓
4	Plumbing (SP G 67 M4)	10	100	✓	✓	✓	User-add	✓	✓

### PRODUCT RANGE - CPVC

SuperIPack for CPVC Pipes : Methyl Tin Based									
Sr. No.	Product Application	Dosage (PHR)	Resin User-add(kg)	TiO <sub>2</sub> (PHR)	PE Wax (PHR)	Pigment (PHR)	Impact Modifier/ CPE (PHR)	Processing Aid <sup>^</sup> (PHR)	
1	Pipes (SDP I 77)	25	100	✓	✓	✓	✓	✓	
SuperIPack for CPVC Fittings : Methyl Tin Based									
Sr. No.	Product Application	Dosage (PHR)	Resin User-add(kg)	TiO <sub>2</sub> (PHR)	PE Wax (PHR)	Pigment (PHR)	Impact Modifier/ CPE (PHR)	Processing Aid <sup>^</sup> (PHR)	
1	Fittings (SDP F 3000 J6)	25	100	✓	✓	✓	✓	✓	
Compound for CPVC Fittings : Methyl Tin Based									
Sr. No.	Product Application	Dosage (PHR)	Resin (kg)	TiO <sub>2</sub> (PHR)	PE Wax (PHR)	Pigment (PHR)	Impact Modifier/ CPE (PHR)	Processing Aid <sup>^</sup> (PHR)	
1	Fittings (F 3000 J6)	N.A							✓ All-in-one ready to use compound

✓: Included in SuperIPack | User-add : To be added by the user | <sup>^</sup> Processing aids may include additional chemicals as required.

PVC Pipe Resin (KG)	100	100	100	100	100
CaCO <sub>3</sub> Loading (KG)	8-10	10-20	20-40	40-60	60 and above
UA 1199 WT (KG)	2.7-3.6				
LUB PACK 1387 (KG)	0.2-0.8				
Extruder (make) Output	LUBPACK 1387 (kg) or PE Wax dosage to be defined as per Extruder's output and overall condition				
TiO <sub>2</sub> (PHR) / Processing Aid (PHR) / Impact Modifier (KG)	As per customer's existing formula				
NOTE	Product grade and formulation are subject to change without any prior notice				

Silvin reserves the right to modify product formulations & grades without prior notice or obligation.

## PRODUCT RANGE & STANDARD DOSAGE GUIDE

### PRODUCT RANGE - OPVC

Sr. No.	Product Grade	Dosage (PHR)	Resin User-add(kg)	CaCo <sub>3</sub> (kg)	TiO <sub>2</sub> (kg)	Impact Modifiers (kg)	Processing Aid <sup>^</sup> (kg)
1	OPVC 9	3.3 - 3.5	100	User-add	User-add	User-add	User-add
2	OPVC V1	11	100	✓	✓	✓	✓

Note: Customised formulations can be developed to meet specific processing and product requirements.

✓: Included in SuperIPack | User-add : To be added by the user | <sup>^</sup> Processing aids may include additional chemicals as required.

### PRODUCT RANGE - uPVC WINDOW PROFILE

Sr. No.	Product Application	Dosage (PHR)	Resin User-add(kg)	CaCo <sub>3</sub> (kg)	TiO <sub>2</sub> (kg)	Impact Modifiers (kg)	Processing Aid <sup>^</sup> (kg)
1	WP 7899 WT	3.5	100	User-add	User-add	User-add	User-add
2	WP 7899 IMP	09	100	User-add	User-add	✓	✓

Note: Customised formulations can be developed to meet specific process and product needs.

## L\*a\*b FORMULA TABLE & CERTIFICATIONS

Grade	L	a	b
WP 7899 WT	95.87	-0.89	1.61
WP 7899 IMP	95.87	-0.89	1.61

Note: These L\*a\*b values can be achieved only if the recommended additive make, dosage and formulation are followed precisely. Any deviation may affect colour, brightness, and profile quality.

Silvin reserves the right to modify product formulations & grades without prior notice or obligation.

## IN-HOUSE R&D AND ADVANCED TECHNOLOGY – THE BACKBONE OF SILVIN

At Silvin Additives innovation begins in our own laboratory. Our dedicated R&D team works with advanced testing and analytical tools - including Brabender analysers and injection-moulding machines to refine formulations and improve processes. A spacious, fully equipped lab supports this effort, enabling precise evaluation so that every batch meets the highest quality.



## WORLD-CLASS MANUFACTURING

Silvin's 9,000 sq. m manufacturing plant combines efficiency with scale, delivering an annual capacity of 48,000 MT. Modern, high-performance machines allow us to meet diverse customer requirements while maintaining strict process control. With round-the-clock on-ground technical support, we help manufacturers achieve the output quality they aim for. This approach has enabled Silvin to move beyond supplying additives and become a reliable production partner.



## HELP US TO HELP YOU

To create a blend that matches your machines, processes and raw materials, we need a little insight from you. The more detail you provide, the better we can fine-tune our solution.

### Please share:

- **Product application**
- Resin make
- **CaCO<sub>3</sub> dosage**
- Extruder make, output and type of die-head
- **Impact modifier type and dosage**
- Processing aid type and dosage
- **TiO<sub>2</sub> make and dosage**
- Pigment make and dosage
- **Mixer size (for customised packing)**

# SUPER 1 PACK™

ADDITIVE CHEMISTRY SIMPLIFIED



