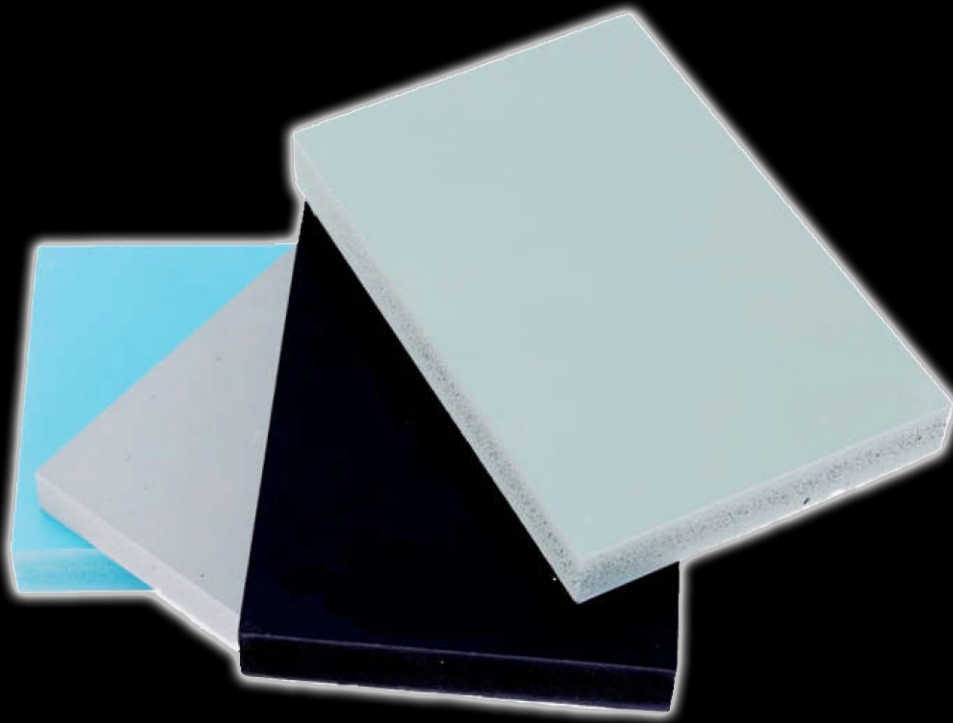




OCM

100 YEARS OF STRENGTH

PVC Plastic Formwork



OCM, Inc.
1120 E. Peterson Road
Grayslake, IL 60030
Toll Free: 866-457-5710
Phone: 847-462-4258
FAX: 847-462-4259
www.ocm-inc.com
sales@ocm-inc.com

What is PVC Plastic Formwork?



Characteristics and Advantages



How to Compare PVC Plastic Formwork



Why Choose OCM?



What is PVC Plastic Formwork?

Overview

- PVC Plastic Formwork is a new type of plastic formwork, which is made of PVC material only.
- It has the same sizes and applications as plywood formwork, but with much better performance. In wooden structures, it can be reused at least 50 times. In premium structures which provide good protection for the formwork panels, it can be reused many more times.
- With its development, we can save forest resources. This new PVC Plastic Formwork is in accordance with the world trend of energy conservation and environmental protection.
- Energy-saving with its environmental protection and economic with its cyclic regeneration, this product is gradually replacing traditional formwork materials in civil engineering.

Sizes and Thickness

- PVC Plastic Formwork has the same sizes and applications as plywood formwork.
- Width: Up to 1250mm (49.25").
- Length: No limits.
- Thickness: Up to 22mm (7/8").
- Density: $0.7\text{g/cm}^3 \pm 2\%$ (standard), $0.6\sim 0.9\text{g/cm}^3 \pm 2\%$ (can be customized).
- Color: Green-Grey (original), other colors can be customized (blue, black, grey, etc.).
- The most popular sizes are the same as plywood formwork: Widths and lengths of 1220mm (48"), 2440 (96"), with nominal thicknesses of 12mm (1/2")/15mm (5/8")/18mm (3/4"). Other sizes can be customized.

Our PVC Plastic Formwork will lesson costs and increase benefits

- Save formwork costs—Reuse ≥ 50 times in a simple wooden structure... much more in a premium structure.
- Save purchasing cost.—No need for form release.
- Save cleaning and labor costs—Doesn't stick to concrete withing the first ten uses.
- Save labor costs—Easy to clean. Just use a mop with water to clean the used PVC Plastic Formwork.
- Save formwork cost—Foaming technology together with excellent surface hardness eliminates delaminating.
- Save tools cost—Robustness and excellent strength to handle multiple demanding applications.
- Save curing cost—Antiflame, Waterproof, UV Resistant, Alkali/Chemical Resistant, Moisture Resistant
- Increased benefits—100% Recyclable. You can sell the used PVC Formwork for a higher cost than plywood.
- Get more projects—Smoothness and hardness ensure the constant and uniform project quality from first to top floor.

Characteristics and Advantages

Save Cost by Reusing 50+ Times!

PVC Plastic Formwork can be reused ≥ 50 in plain wooden structures, and many more times in premium metal structures. This means the lifespan of 1 piece of PVC Plastic Formwork equals that of 5~10 pieces of plywood formwork.



Same Sizes and Applications as Plywood Formwork

PVC Plastic Formwork comes in the same sizes and applications as the conventional phenolic plywood formwork. Same preparation, handling, installation and assembly for walls, slabs, columns, stairs, tunnels, bridges, etc. **No changes needed** for your present structure and construction process. **No additional training or special tools required.**



Characteristics and Advantages cont.

Match with Different Structures

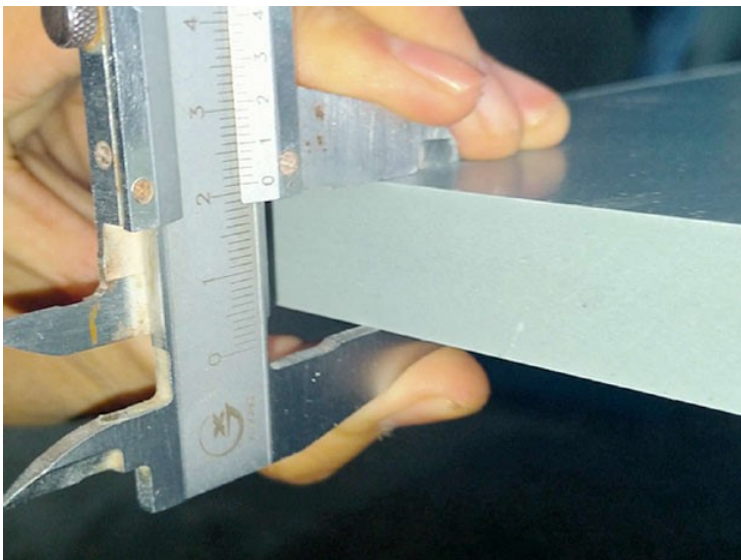
PVC Plastic Formwork can match with different structures, and can be freely assembled into different shapes including square structures and round structures. It can be bent to a 180° angle.



High Impact Strength

PVC Plastic Formwork has much better strength than wood/plywood formwork. This is another important aspect allowing it to be reused 50+ times.

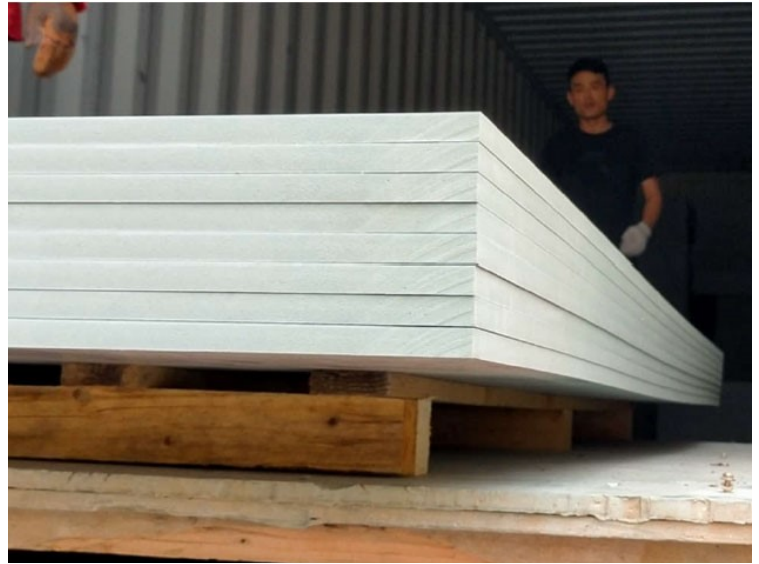
PS: Shore hardness around 75D is the best for PVC Plastic Formwork. It is wrong that the higher hardness the better. Don't be misled!



Characteristics and Advantages cont.

Foaming Technology Never Delaminates

PVC Plastic Formwork adopts the foaming technology, not layering or laminating. It will never delaminate, even after reusing 100+ times. It can be reused continually unless it is heavily cracked due to violent construction (such as frequently being thrown hard and /or from height).



Smooth Concrete Surface

The patented mirror surface technology ensures a smooth surface for the PVC Plastic Formwork, and it is able to maintain its smoothness even after reusing 100+ times. This helps to ensure that all wall surfaces will have a **uniform smoothness** from the first to the top floor.



Characteristics and Advantages cont.

Antiflaming

No wood powder or any material from different resources is added so the PVC Plastic Formwork is anti-flaming. This effectively reduces the fire risk and limits the spread of fire. There is no need to implement additional fire precautions and protection measures on the site.



High Bending Strength and Elasticity

The PVC Plastic Formwork has excellent bending strength, allowing it to be curved freely in round formwork structures. Even in winter, the PVC Plastic Formwork maintains its elasticity while bending. Non-fragile under -40°C .



Characteristics and Advantages cont.

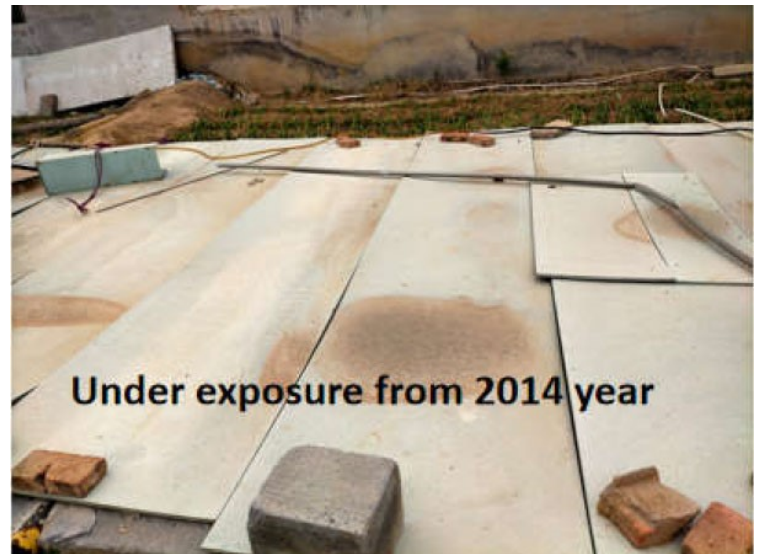
100% Waterproof!

PVC is a kind of popular plastic material and it is the only raw material used. Plastic is waterproof so it can be exposed to rain without having to cover it.



UV Resistant, Alkali/Chemical Resistant, Moisture Resistant

The PVC Plastic Formwork is UV Resistant, Alkali/Chemical Resistant and Moisture Resistant. It is durable enough to be used, stored and placed in an outdoor environment in any season without the need of any protection, including from rain or snow. There are customers in many climates throughout the world that successfully use this product.



Characteristics and Advantages cont.

Temperature Resistant

The PVC Plastic Formwork has good resistance against temperature. It shows no shrinkage, bulge, cracking or any sign of deformation from -40°C to $+75^{\circ}\text{C}$. Actually, it maintains integrity up to $+200^{\circ}\text{C}$ (which is the temperature of the manufacturing process). You can put it outside without special curing in snowy or Summer sunshine weather. Non-fragile in Winter.



No Need for Releasing Oil—Easy Releasing and Clean-Up

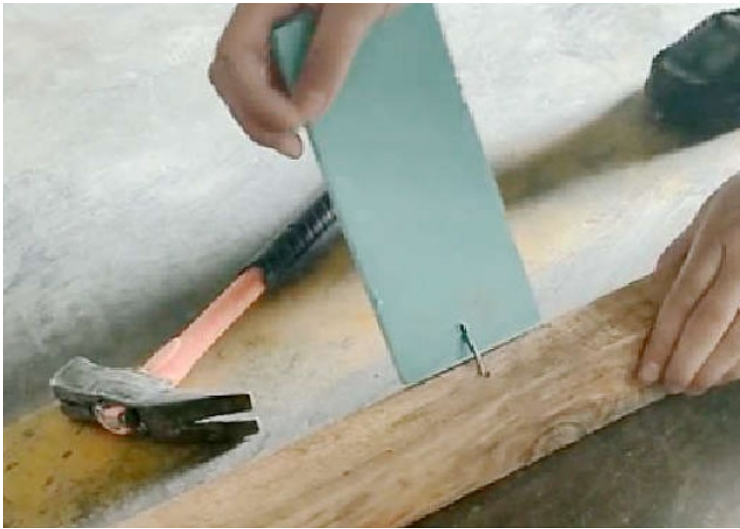
With its long-life smooth surface and excellent hardness, concrete doesn't stick stubbornly to the PVC Plastic Formwork. There is no need for a releasing agent or oil before or during the concrete demolding process. This allows it to be cleaned with water and a mop and it is easily demolded by hand, which leaves the wall surface to remain smooth and glossy without the need of secondary plastering.



Characteristics and Advantages cont.

Good Nail and Screw Holding Strength

With unique technology, the PVC Plastic Formwork can hold nails and screws tightly—this is another guarantee for 50+ times reuse. Reusing the same nail holes after 50+ times (right photo), the performance of the material doesn't weaken.



Freely Cutting, Punching, Nailing and Screwing

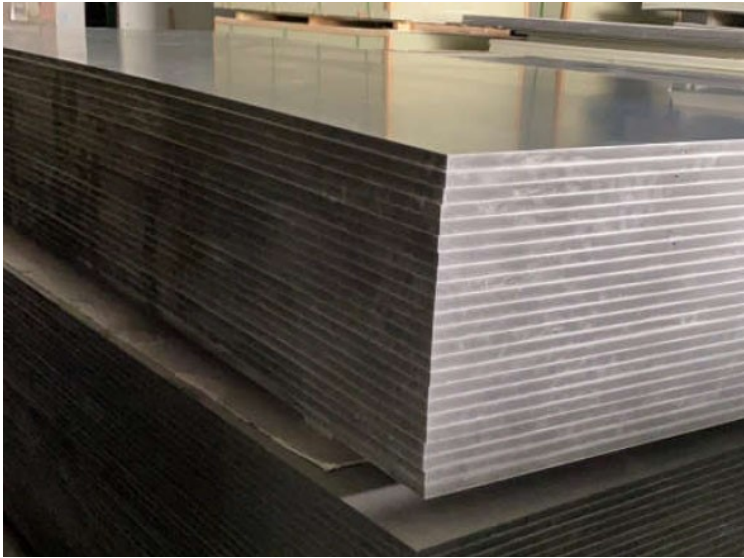
With good hardness, strength, and good foaming, you can shape the PVC Plastic Formwork at will by freely cutting, punching, nailing and screwing using the same tools as plywood formwork.



Characteristics and Advantages cont.

Environmentally Friendly, No Formaldehyde

This product is made of 100% PVC, we never add any wood. It is environmentally friendly, doesn't discharge any infectant or toxic gas, and no formaldehyde. This ensures it to be in accordance with environmental trends in the world.



Recyclable with Extra Returns

PVC is one of the most popular plastic materials in the world. It is easy to resell the used PVC Plastic Formwork to related plastic industries (such as PVC tubes, PVC doors, etc.), with higher returns than plywood.

For small parts, you can resell them to related plastic industries. For large parts, you can reuse them continually or rent them out to other projects.



How to Compare PVC Plastic Formwork

Pay Attention to the Density and Weight

A higher density and a higher weight means a higher cost.

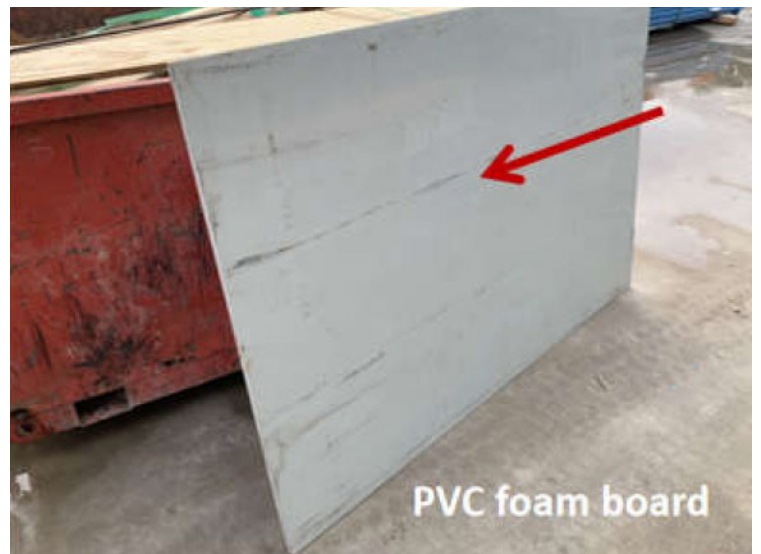
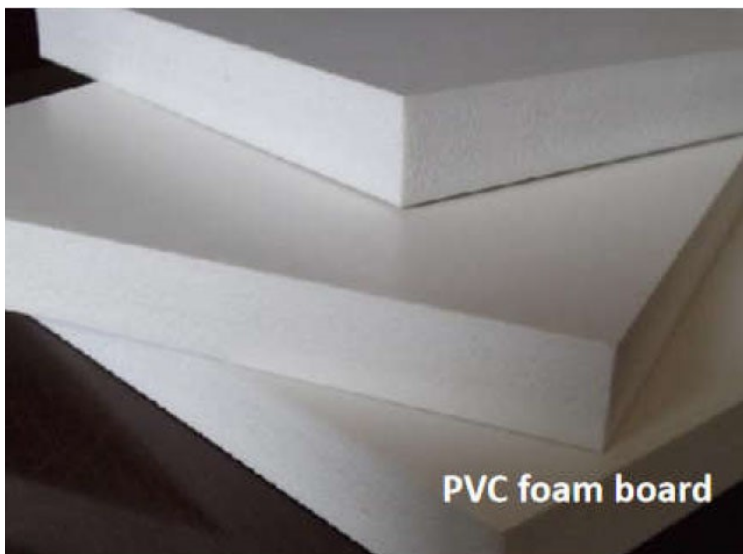
When you compare the prices, please pay attention to the density or weight or you may judge from the loading quantity in a container. This is one of the most important points that influences the quality and price of PVC Plastic Formwork.



Furniture Material or Formwork Material

PVC/WPC foam board is furniture or decorative material, not formwork material.

There is a lie that PVC/WPC foam board can be used for construction formwork. But actually, no projects use them for construction. They are different products than PVC Plastic Formwork: different technology/applications/raw materials, with a much lower cost than formwork material.

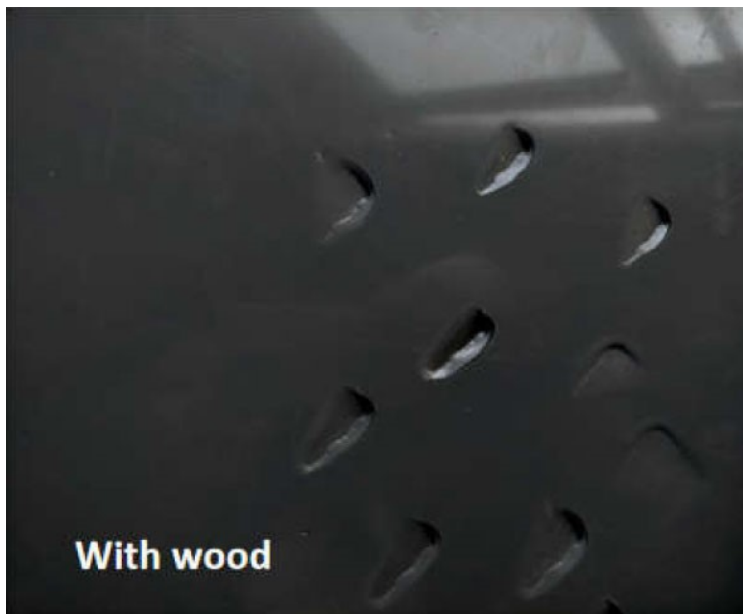


How to Compare PVC Plastic Formwork cont.

Formula: With or Without Wood Powder

To lower cost, many formwork factories add wood powder to the raw material, which makes those products fragile, lower in strength and not fireproof. Especially under low temperature, it cracks.

Our PVC Plastic Formwork is made of 100% new, pure PVC material. It never contains wood powder. This is our unique formula.



Raw Material: New or Recycled?

There are three different qualities of PVC Plastic Formwork raw materials.

1. 100% new PVC pure material which is also called plastics-steel material. It is the only qualified material for PVC Plastic Formwork. It is the highest quality and consequently is the highest priced.
2. Adding recycled materials from different resources means lower cost. Quality varies based on the final cost. Higher costs means less recycled product used, lower cost means more. You can't get a stable quality.
3. 100% recycled PVC material from different resources (the lowest cost and quality). The recycled material cost is 1/4 the cost of new material but is very low quality. Formwork can't be used more than 15 times.

Our source is the only factory using 100% new pure PVC material. This PVC Plastic Formwork never contains recycled materials. Please pay attention to this important point.

According to years of feedback on PVC Plastic Formworks, if any recycled material is used, the formwork will curve and become soft under heavy UV exposure or high temperature. Must use 100% new pure PVC material.

How to Compare PVC Plastic Formwork cont.



Our New Pure PVC Raw Material



Recycled Materials from Different Resources

Four Reasons to Choose Suppliers that Use 100% New PVC Materials

1. Stable Quality

You can't control or know how much second-hand material the supplier will add to your order. Also, the suppliers can't control the quality of the recycled material, because they don't know where the recycled material comes from. You can't get stable quality unless you use 100% new pure PVC materials.

2. Economical Cost

Some factories add more second-hand materials to the formula to decrease the cost... or even use different recycled plastic materials. You can't get the same products with the same prices (cost of second-hand material is 1/4 the cost of new material).

3. Qualified UV Resistant

According to years of experience in different countries, when second-hand materials are added to the formula, the UV resistance will be unqualified (let alone if you use 100% recycled material). The formwork will bend, deform or become soft under sunshine with temperature lower than +35°C, especially in regions with high UV exposure.

4. Best Tenacity and Rigidity

New PVC material has the best tenacity and rigidity, which are two of the most important requirements for plastic formwork. **Once PVC is recycled, these qualities are drastically reduced.** Suppliers that use second-hand PVC materials from different resources can't guarantee the tenacity and rigidity of their formwork.

Why Choose OCM for PVC Plastic Formwork?

Unique Advantages No. 1: Unique Formula, No Wood Powder

We have a unique formula and never use wood powder. Our products stay strong under extreme weather—no matter heavy sunshine +45°C, or in winter -40°C.



Unique Advantages No. 2: 100% New Pure PVC Material—No Recycled Material

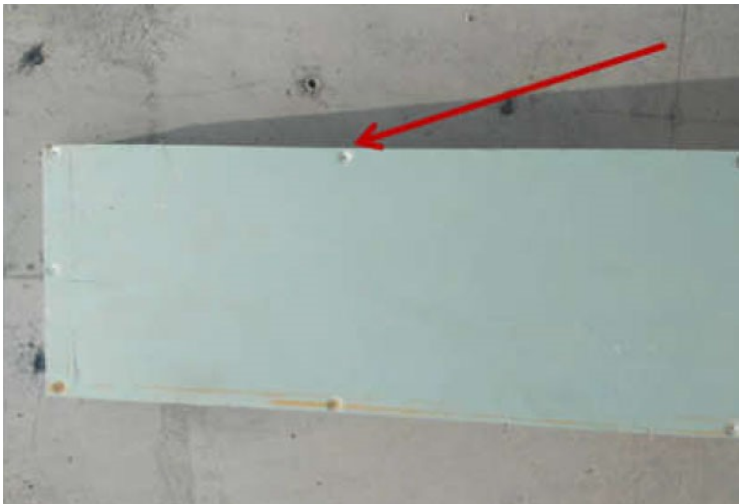
As mentioned, adding any second-hand, recycled PVC material will lead to unqualified UV Resistance in PVC plastic formwork, especially in heavy UV areas including USA, Europe, South America, Oceania, Africa and some Asia areas.



Why Choose OCM for PVC Plastic Formwork? cont.

Unique Advantages No. 3: Best Nail Holding Strength

Even if you nail **less than 5mm** from the edge, our product will still hold the nails well with no cracking. This is also because we use 100% new pure PVC material. With this unique advantage, we can control our PVC Plastic Formwork to have the best tenacity and rigidity.



Unique Advantages No. 4: Excellent Foaming Technology, Ensuring the Smooth Surface

Our unique raw material ensures our product has good strength and hardness. With this advantage, concrete doesn't stick to our PVC Plastic Formwork during the first 10 reuses. Actually most of our customers don't clean our product after 40+ reuses which saves substantial cost.



Why Choose OCM for PVC Plastic Formwork? cont.

Unique Advantages No. 5: Projects Applied All Around the World

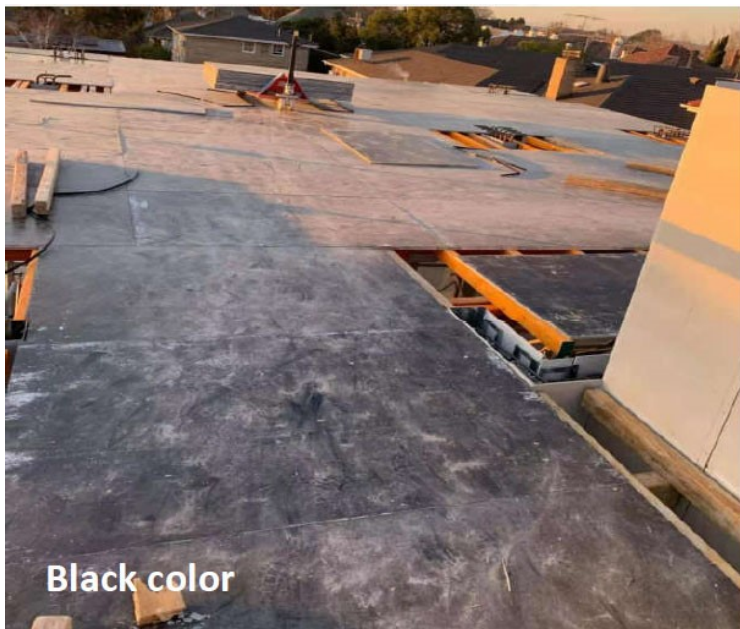
This PVC Plastic Formwork has been widely used in 1000s of projects throughout the world with great success.



Project Cases



Project Cases cont.



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1120 E. Peterson Road • Grayslake, IL 60030

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www.ocm-inc.com • sales@ocm-inc.com