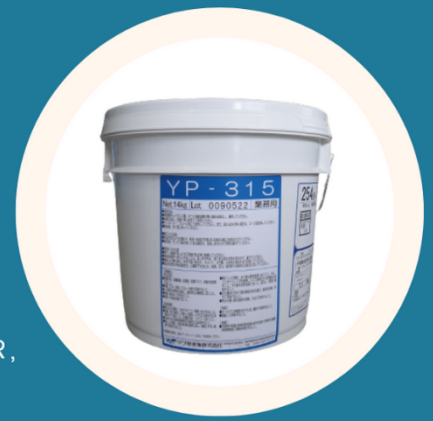


Firm Penetration Primer

YP - 315

PREMIUM QUALITY, NANOTECHNOLOGY WATER-BASED PRIMER,
PENETRATES DEEPLY FOR MAXIMUM BOND STRENGTH



YP-315 is a water-based primer and strengthening agent used to strengthen vulnerable fragile inorganic substrates.

Features

- Easily penetrates and strengthens fragile inorganic substrates
- Since it is water-based, it does not emit organic solvents (Can be used indoors)
- After application, cement-based materials such as mortar and water-based materials can be directly applied.
- Since it is a single dilution and uses undiluted solution, there is no need to mix or dilute it
- It can be installed up to a temperature of 0°C.
- Polymer particles 30 – 50 nm penetrates 2-3 mm.

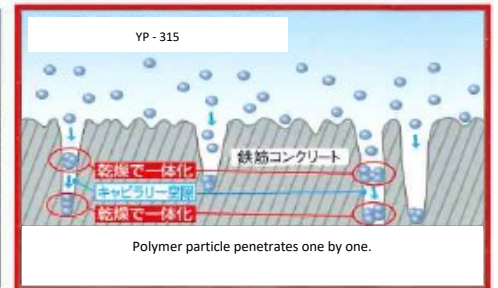
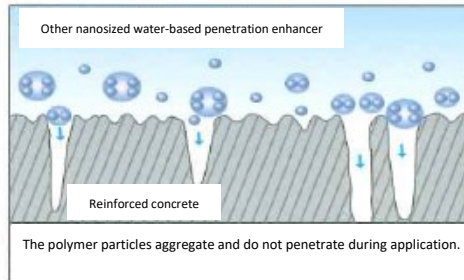
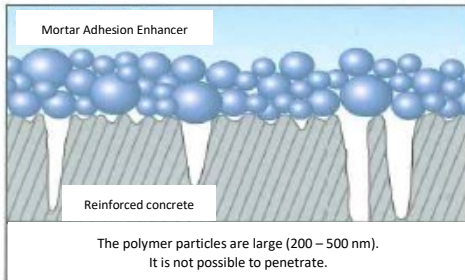
Packing

Capacity	Packaging	Appearance
14 Kg	Porypale	Milky white translucent liquid



Penetration Mechanism

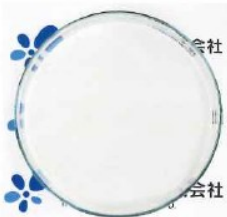
Unique technology reduces polymer particle diameter to close to molecule size 30-50 nm, allowing penetration into vulnerable layers with concentration, viscosity and chemical stability that is best suitable for penetration.



If the surface of inorganic substrates such as concrete and mortar is vulnerable, you cannot expect the original adhesion even when finished material is applied, and there is a risk of peeling. This water-based primer is penetrating and strengthening the vulnerable substrate and makes it possible to apply finished materials.

Comparison With Other Company Products

■ Difference in Particle Size



General water-based penetration enhancer



YP- 315

YP – 315 has very small polymer particles, so they reflect less light and become translucent.

■ Difference in penetration (5 minutes after application)



General water-based penetration enhancer



YP - 315

YP – 315 has a high degree of penetration, it is possible to enhance penetration.

Plant Base Co., Ltd.

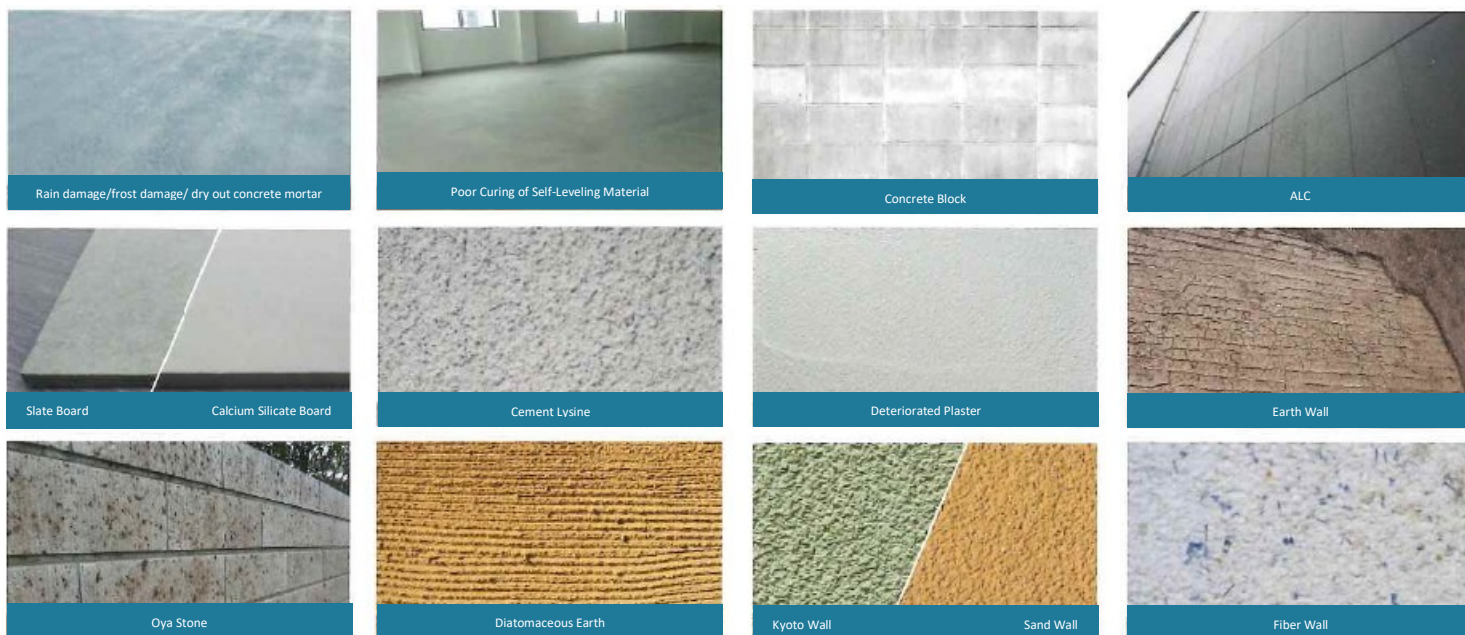
53-2 Sanrizuka, Narita City, Chiba Japan,
286-0111
Tel: +81476 35 3160 Fax: +81476 35 3170
<http://plant-base.com/>



Yabuhara Sangyo Co., Ltd.

546 Angyokitaya, Kawaguchi City, Saitama
Japan, 334-0054
Tel: +8148 297 4111 Fax: +8148 – 290 – 1198
<https://www.yabuhara-ind.co.jp>





In addition, use YP-315 for strengthening the penetration of inorganic bases, age weathered, neutralized bases and for dust proofing. Also, please use it as a water absorption adjusting material for inorganic material.

- No effect can be expected for organic paint films such as paints, and parts that do not absorb such as wood, metal and plastic
- Brick is not recommended because it often inhaled endlessly and there is a high responsibility that it cannot be strengthened.
- Please note the plaster containing oil is likely to have less suction.
- It penetrates into the surface layer such as Kyoto wall and fiber wall to strengthen it, but it does not improve the adhesive strength of the member itself.

How to use

1. Treatment of Vulnerable Groundwork

- Remove latency and fragile parts with a disc sander, polisher, or peel and clean it.
- After washing with water, make sure the base is sufficiently dry (if it is not dry, it will not penetrate).

2. YP – 315 Application

- Use wool roller, brush, watering can, sprayer to apply the diluted solution until it remains on the surface.
- YP - 315 can strengthen the inside of the base. Apply until it remains firmly on the surface.
- If the substrates is highly absorbent, apply several times within 1 hour depending on the situation¹. Then, let it dry².

¹Estimated application amount Interval: 1 hour

Application amount (g/m ²)	Standard construction area
200 - 500	28-70 m ² /14 kg

Substrates	Consumption (kg/m ²)	Application (times)
Kyoto wall, sand wall	0.2 – 0.5	1 – 2
Concrete block, Oya stone	0.5 – 0.8	2 – 3
Frost & rain damaged concrete	0.2 – 0.5	1 – 2

²For the next process, cure at 23°C for the 2 to 3 hours (after the water has evaporated) as a guide. When constructing thick materials such as mortar, please apply on the next day.

3. Finishing material construction

Please select the appropriate primer for finishing material such as mortar, exterior materials, waterproof material. (In principle, if you have a special primer, please apply it).

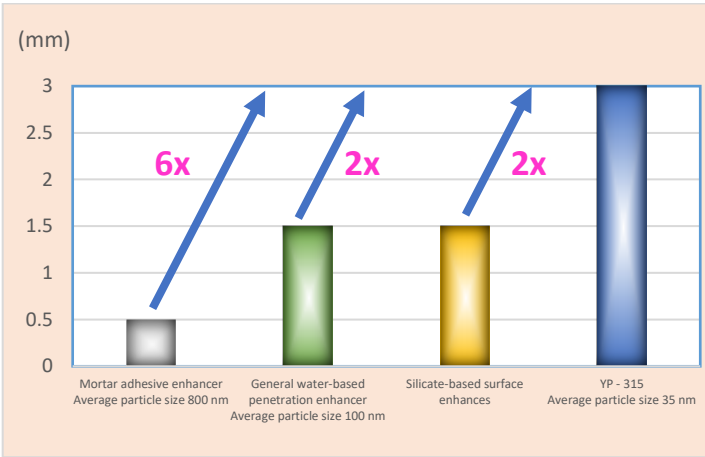
³When using a primer system, YP – 315 as an undercoat finishing agent in solvents must be sufficiently evaporated so as not to trap the solvent.

Please apply the finishing after it has been released and dry (Please contact for more information)

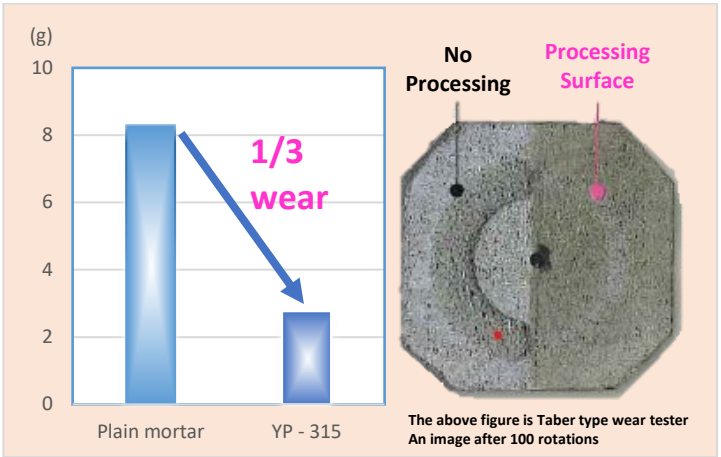
Type of finishing material	Requirement of Dedicated Primer (Water absorption adjuster for cement materials)
Cement material	Not required ³ (Self-leveling material required)
Water -based paint	Not required ⁴
Weak solvent paint	Required
Strong solvent paint	Required

As general rule, if there is a special primer for finishing material, please apply it.
⁴For waterproof material (elastic materials), be sure to apply special primer.

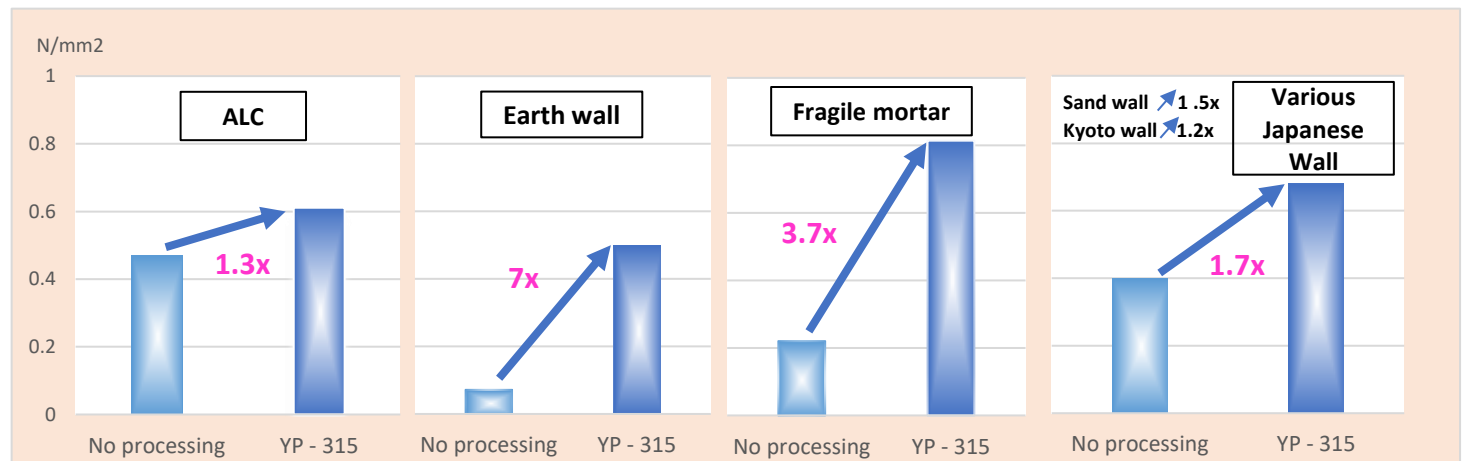
■ Penetration Depth Comparison Test with Various Primer



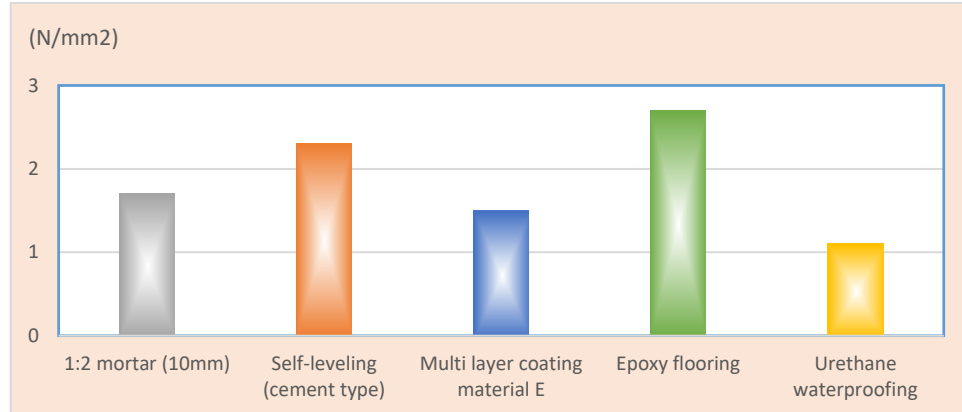
■ Abrasion Resistance Comparison Test



■ Adhesive strength comparison test for various substrates



■ Adhesion strength between YP – 315 and various finishing materials



General Handling Precautions

Handling Precautions

- Expose finish is possible in principle. In that case, gloss and colour unevenness may occur. Also, it is not suitable for places that are constantly flooded with an exposed finish.
- When it reacts with acid, it may gel
- When after applying YP – 315 and the application interval passed or on the base, and on that condition the material does not penetrate and we reapply it, the material would not penetrate and form a film. Please make sure the primer cures properly and not just dry.
- If you apply too much and form a lump, wipe it off with a waste cloth
- Please keep in mind the construction at a temperature of 5°C or higher
- The storage temperature should be 0°C or higher, 40°C or lower
- Store at room temperature, avoid direct sunlight
- Make sure that the loaded load does not collapse so that it will not turnover, fall or be damaged.
- The leaking liquid can be absorbed with a cloth.
- Never disposed of gutters, rivers, lakes etc, and dispose of them appropriately as industrial waste
- Use within 1 year.

Safety Precautions

- Handle in a well-ventilated place to prevent inhalation and contact with eyes and skin. Therefore, please wear protective equipment (protective glasses, protective gloves, etc) depending on the situation.
- If it gets on eyes, rinse with clean water a few minutes and see a doctor immediately
- If it adheres on the skin, it may cause skin irritation, so wash immediately with water.
- If you feel sick after inhaling, immediately move to a place with fresh air and gargle with warm water. Please see a doctor depending on the situation.
- If swallowed by mistake, rinse your mouth, do not force vomiting, and see a doctor immediately.

If you have any questions, please contact us.