

A 3D architectural rendering of a modern terrace. The terrace floor is a smooth, light grey surface. A white planter box with a green succulent sits on the right. In the background, there's a blue sky with a bright sun, a blue body of water, and distant mountains. The overall scene is bright and clean, suggesting a well-maintained outdoor space.

No.789 - HYDROSTOP

Single-component Polyurethane/Polyurea coating

THE REVOLUTION IN WATERPROOFING

Hydropstop combines the benefits of both polyurea and polyurethane in one product extremely easy application and excellent waterproofing on the most difficult surfaces.

HYDROPSTOP

WATER PROOF FOR ONE LIFE



▲ Roof



▲ Balcony



▲ Bathroom

Polyurethane is the most effective and easily applicable product for waterproofing. Unfortunately it has some disadvantages like bubbling, temperature and sensitivity. Polyurea in its own right has very good properties but is expensive as a product with much difficulty in its application. Hydrostop is a new innovative product, which has the advantages of both polyurea and polyurethane.

Which means:

- * *Easy application*
- * *Excellent chemical resistance*
- * *Excellent mechanical properties*
- * *Can be applied on any surface*

■ Synopsis

Hydrostop is the new and innovative product from **Continental Coatings Inc. USA** and **Rainbow Paints**, that came after many years of research. Hydrostop is a product that can be used in almost every waterproof application without the need for extra materials to fill the gaps, corners or uneven surfaces.

Hydrostop is a single component, moisture curing polyurethane/polyurea liquid applied membrane, with excellent chemical resistance and mechanical properties. It has very high abrasion resistance and it is specially designed for difficult and demanding waterproofing applications.

■ Application

1. It can be applied in roller, brush or trowel.
2. Airless spray (10% No.736)

■ Waterproof testing (3 months)



▲ Without application



▲ Single-Component Polyurethane /Polyurea Waterproofing



■ Function

Waterproofing for:

1. Gypsum and cement boards
2. Polyurethane insulation foams
3. Flat roofs
4. Roofs with inclination
5. Bathrooms
6. Light roofing made of metal or fibrous cement
7. Asphalt membranes
8. EPDM membranes
9. Concrete Tanks
10. Refinery steel tanks
11. Stadium sands
12. Bridge platforms
13. Tiles (under)
14. Flashings
15. Wall-floor connections
16. Pipes
17. Gutters
18. Cementitious substrates
19. Basements
20. Foundations
21. Closed spaces with high humidity
22. Complex structures (excellent rheology)
23. Walls
24. Planters boxes
25. Swimming pools

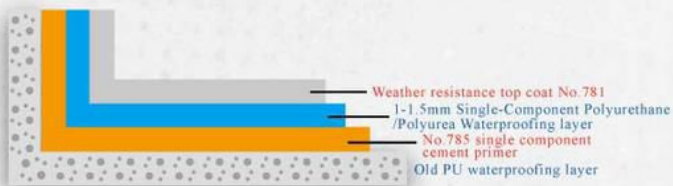
■ Hydrostop use

| | |
|-------------------------|------------------------|
| Specific weight: | 1.3 gr/cm ² |
| Solids: | Above 90% |
| Viscosity: | 2000~8000 cps (25°C) |
| Optimum Film Thickness: | 1~2mm |
| Potlife: | Within 2 hrs (25°C) |

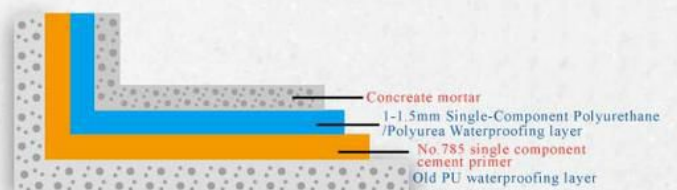


■ Hydrostop Application procession

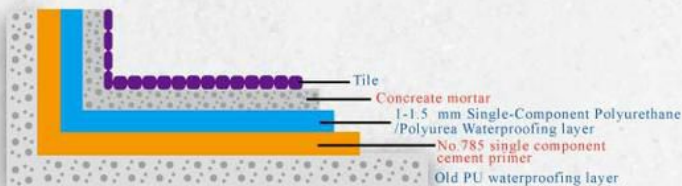
1.5mm rooftop waterproofing & directions for use



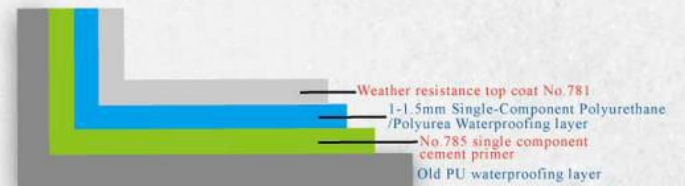
Sky garden plant waterproofing



Bathroom floor waterproofing & directions for use



Old PU waterproofing layer



■ Characteristics

* **Thixotropic**, can be applied on any complex structure, assuring completely seamless and homogenous covering of uneven concrete surfaces that are usually encountered on bridge decks or vertical surfaces, swimming pools and tanks. Thixotropic: Easily applied on vertical surfaces and complex shapes without running or bubbling even in high quantity.

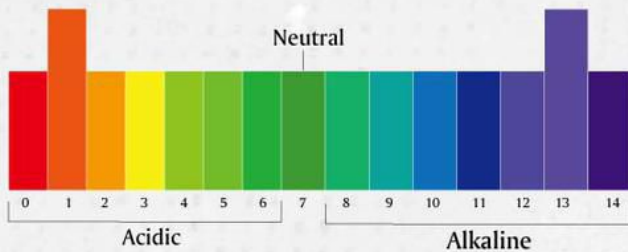


▲ Polyurethane

▲ Hydrostop

* Excellent chemical resistance.

Can withstand chlorine and salts that are commonly found in bathroom, tanks, swimming pools etc.



* Aging Test



▲ Two components PU

▲ Single component PU

■ Packaging

No.789 is supplied in metal containers of 3kg and 10kg.

■ ECO friendly

NO Bitumen, Coal tar, Aniline in product additives. Hydrostop composed of high quality resin and Eco friendly additives. We do believe that products have been designed to do the least possible damage to the environment and human healthy.

* Excellent mechanical properties.

High elasticity, tensile and tear strength both in high and low temperature. Can even withstand the stresses of heavy asphalt application machinery.

| Time Item | Test Method | Test Result | |
|---|---|-----------------|----------------|
| Hardness(Type A/1 sec) | ASTM D2240-15 | 40 | |
| Tensile Strength (kgf/cm ²)(23°C) | ASTM D412-16 (Die C · V=500mm/min) | 23.8 | |
| Elongation (%)(23°C) | | 720 | |
| Tensile Strength (kgf/cm ²) (-40°C) | Ref. ASTM D412-16 (Die C · V=500mm/min) | 12.5 | |
| | | 200 | |
| | | 111 | |
| Elongation (%)(-40°C) | | > 350 | |
| Adhesion Strength (kgf/cm ²) | Mortar | ASTM D4541-09e1 | 14.8 |
| | Steel plate | Method E, TypeV | 24.4 |
| Tear Strength(kgf/cm) | ASTM D624-00(2012) (Die C · V=500mm/min) | 11.4 | |
| Water Resistance(70°C : 48 h) | Ref. ASTM D471-16a | No abnormality | |
| Chemical Resistance (23°C : 24 h) | 5% NaOH | ASTM D543-14 | No abnormality |
| | 5% H ₂ SO ₄ | | |
| | 5% HCL | | |

* Displays **crack bridging properties** over a wide range of extremely high and low temperature.

* Can be used from **-40°C to 80°C**