

TD.829 – TECHNICAL DATA: HYDROPHO-PR52™ Concrete Water Repellant

Revised: 12/27/19

Product Description:

HYDROPHO-PR52™ is a water-based silane chemistry that waterproofs concrete with porous mineral structures and provides an easy to clean surface. Resistant to staining, mold growth and will resist water streaks. Recoat every six months to two years depending upon abrasion and traffic patterns.

Features:

- Excellent water and oil repellency
- Slows the growth of microorganisms such as Lime stone and other porous statues
- Excellent resistance to coffee, cola and other dark liquids

Physical Properties:

<u>Property</u>	<u>Test Standard</u>	<u>Result</u>
Mix Ratio:		One component
Color:		Clear liquid
Consistency:		Flowable/penetrating
VOC:		0

Coverage:

Concrete: (must be cured 28 days before application) 350 sq. ft. per gallon (2 coats recommended)
 Sand Stone: 300 sq. ft. per gallon (2 coats recommended)
 Marble and granite: (polished): 500-525 sq. ft. per gallon (1 coat recommended)
 Glazed tiles: 500-525 sq. ft. per gallon (1 coat recommended)
 Red brick: 375-400 sq. ft. per gallon (2 coats recommended)
 Mineral plaster: 350 sq. ft. per gallon (1 coat recommended)
 Limestone: 300 sq. ft. per gallon (2 coats recommended)
 Recoat: 30 minutes to 1 hour. Subsequent coats will take considerably less material than the first coat

Application:

Do not apply in rain or high winds. Wear appropriate respirator and protective clothing.
 Application temperature: 40°F or 5°C to 105°F or 40°C
 The facade or statue to be treated must be clean and surface dry with no rain or high winds in forecast if applied outdoors for at least 8 hours after the application. All dirt, grime, efflorescence, algae must be removed prior to application. Before application it is highly recommended to do a small test patch to determine appearance and absorption rate. All cracks and spalls should be repaired and fully cured before application.

Application methods:

For ease of application use HVLP (high volume low pressure) equipment. Airless sprayers low pressure “flooding method” is also acceptable. This ready to use solution is best applied starting at the bottom and going up the wall or statue this eliminates or minimizes dripping stains. Avoid using dirty application equipment which might stain the substrate. In some cases, with very porous substrates like limestone, the hydro-oleophobic effect may take a number of days to develop. Less porous substrates the hydro-oleophobic reaction takes place within minutes.

In the case of polished stone (e.g. marble, granite) simply apply once with a cloth, microfiber glove or other suitable aid and polish until the liquid film is no longer visible. Significantly less product is required to protect polished surfaces. Do not treat non-absorbent surfaces like glass, plastics, wood, or metal as the penetration and reaction will not take effect.

On Horizontal surfaces exposed to traffic application will be reduced to 6 months to 2 years before recoat is required. Plants in the vicinity of the substrate to be treated should be protected from over spray as well as any other substrate that might receive overspray.