

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

Revised: 4/29/21 Version: 1.1

Product Description:

HYDROPHO-PR52™ is a water-based silane chemistry that repels water with porous mineral structures and provides an easy to clean surface. Resistant to staining, mold growth, and water streaks. Recoat as needed, depending upon abrasion and traffic patterns.

Features:

- Excellent resistance to liquids
- Slows the growth of microorganisms on concrete and other porous substrates.

Physical Properties

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 PPE.
- Application temperature: 40°F / 5°C to 105°F / 40°C
- The surface to be treated must be clean and dry with no rain or high winds in the forecast, for at least 8 hours after the application if applied outdoors.
- 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.
- 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.
- For vertical surfaces, 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.
- In some cases, with very porous substrates like limestone, the hydro-oleophobic effect may take a number of days to develop.
- In the case of polished stone (i.e. marble, granite) simply apply with a cloth or microfiber product 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.