

## 620 Stone / Mineral / Concrete Coating, penetrative

### Key Features

Application Temperature	Coverage Rate per litre	Durability of the coating	Shelf life of the liquid	Storage Temperature	Curing time
-10°C - +70°C	8-50m <sup>2</sup> , depending on the absorbency of the stone	10-20 years or decades, depending on the nature of the stone	Plastic bottles: 5-10 years Alloy bottle: Unlimited	-10°C - +40°C	3-6 hours at 20°C (surface usable after 1-2 hours)

Unlike our standard coating for stone 695 (which is a water based topographical coating) this coating is designed to penetrate deep into the structure of the stone. After it has become established in the stone it provides massive protection against abrasion, and water ingress. Specifically developed for mineral based surfaces such as sandstone, limestone, travertine, concrete, pavers and brickwork.

The coating will remain highly effective for at least 10-20 years. This coating can be used on floors.

It is primarily designed as an anti-weathering coating for stone which significantly impedes and water ingress. On some stone (normally dense stone such as marble and granite) the coating offers additional stain resistant characteristics. Testing is always recommended before large scale application. It should not be applied to wet or moist stone. Optimum performance is established after drying for 24hrs at approximately 20C°.

### Properties

- contains solvent (not water), no formation of sticky silicon films
- suitable for internal and external usage, it performs exceptionally well on smooth or rough materials.
- can be applied to large areas by spraying
- Time saving one step application - no residue after application
- permeates up to 25mm deep (depending on the stone structure)
- Highly durable, offering protection for 10-20 years or decades, depending on the nature of the stone and the application process utilised
- The coverage rate varies depending on the absorbency of the stone, approx. 8-14m<sup>2</sup> per l for highly absorbent stone to approx 20-50m<sup>2</sup> for less absorbent stone, such as granite
- colourless, no negative impact on the look or consistency of the stone
- coated surfaces remain breathable
- resistant against frost, UV light (California Test - 24,000 hours or 5 years of sunshine), salt attack (e.g. chlorides), staining,

higher pH levels found in new masonry and pointing, water ingress, soiling, pollution, vegetation and extremely resistant to abrasion

- water/dirt-repellent, the coating reduces the amount of moisture on the surface & therefore minimises the growth of mould, moss & algae as well as discoloration due to air pollution.
- reduces significantly the uptake of water and soluble salts (e.g. chlorides)
- helps avoid unsightly dark water streaks
- easy to clean effect, treated surfaces remain cleaner for longer
- considerably reduces the amount of maintenance work required on stone buildings and it provides a cosmetically stable appearance and mechanically stable structure for many years
- soiling is easily removed with water and other agents such as BIOSATIVA®, our award winning Bio Cleaner
- is not affected by chlorine or salt water, making it ideal for pool areas while ensuring that after coating, the surface remains unchanged
- not affected by steam diffusion through the treated materials and has the top rating in Europe for active gas permeability i.e., being able to "breathe" so there is no build-up of subsurface moisture (EN ISO 7783-2, Classification I, Sp<0.14m)
- Thermal efficiency of walls is improved as stone sealer prevents water ingress
- can be used as part of a flood protection system for a building is highly effective as a waterproofing membrane
- contains aroma free Naphtha, therefore oily liquids have to be removed from the surfaces within minutes after soiling. The coating is not permanently resistant against staining from liquids such as lemon juice, red wine, olive oil etc. We recommend our "Permanent Protector" or Anti graffiti coatings for protection against such staining.
- anorganic silan-siloxan mixture



## 620 Stone / Mineral Coating, penetrative

### Approximate coverage rates per m<sup>2</sup>

- concrete (excluding hybrid concretes with significant levels (more than 1%) of added acrylic compounds or other similar plasticising agents), appr. 10-30m<sup>2</sup> / litre, depending on the density of the concrete).  
Testing above these ratios is advised.
- tiles, unglazed/porous (appr. 20-40m<sup>2</sup> / litre)
- roofing tiles (appr. 15-25m<sup>2</sup> / litre)
- brick/masonry (appr. 20-30m<sup>2</sup> / litre)
- limestone (appr. 15-25m<sup>2</sup> / litre)
- sandstone (appr. 8-15m<sup>2</sup> / litre)
- mineral plaster (appr. 15-30m<sup>2</sup> / litre)
- marble & polished marble (appr. 30-50m<sup>2</sup> / litre)
- granite – polished granite (appr. 40-70m<sup>2</sup> / litre)
- natural stone (appr. 10-30m<sup>2</sup> / litre)
- slate (appr. 15-30m<sup>2</sup> / litre), slate becomes slightly darker after application as oxidation and abrasion is reduced. Coated slate retains an “as good as new appearance” for a prolonged period)

620-1  
620-200  
620-1000

1.000ml bottle  
200 litres barrel  
1.000 litres IBC container

customs code 3209 9000, no DG  
No concentrate available



## 7628 HydroCrete Concrete Additive SiO<sup>2</sup>

### 1. Product description

- Extremely strong mass-hydrophobic agent for wet-concrete
- Capillary regulating characteristic
- Protection against lime efflorescence
- High active ingredient
- Vapour diffusive
- High resistance to alkalis
- Plasticising properties (reduces brittleness, less cracking)
- Highly stressable stabilization
- Extremely weather-resistant
- Frost resistant and also resistant to de-icer
- Low dosage level

### 2. Functionality

7628 HydroCrete is extremely well suited as hydrophobic concrete-additive for the manufacturing of paving stones, concrete slabs and prefabricated concrete elements.

7628 HydroCrete improves concretes compaction, regulates the capillary properties of the concrete and reaches a durable and long lasting structure which is effective in reducing water absorption; this is especially evident where the fully cured concrete is used to stop rinsing moisture.

7628 HydroCrete protects the concrete against lime-efflorescences and against the growth of micro-organisms (moss, algae, fungus) on and in the structure. The final concrete-product remains vapour-diffusive.

### 3. Application

Stir the 7628 HydroCrete concrete additive thoroughly before use. Add the additive to the mixing water. The mixing time of the liquid should at least be 1 minute. Do not add 7628 HydroCrete to the dry concrete-mix.

### 4. Dosage

The recommended dosage of 7628 HydroCrete is between 1% - 1.5% of the binder content (cement). Example. To create a concrete or cement mix. Take 1kg of cement powder. Mix this with 2kg of sand and 2kg of aggregate. Mix thoroughly. Add 10-15ml of the 7628 to 1 litre of water (the amount of water will alter depending on the nature of the concrete required as will the sand/cement/aggregate ratio). Stir this liquid for a minimum of 1 minute to ensure full dispersion. Add this newly created water + additive to the concrete Mix as normal.

Please note that in this example, the 1kg of cement powder plus 10-15ml of the additive (1-1.5% of 7628 HydroCrete) is the critical ratio. If the mixture was based on 50kg of cement powder you would add between 500ml to 750ml of 7628 HydroCrete, dependent of the performance level required.

Please use different doses for two-layer concrete (core-layer and face-layer). Example: Core-concrete: Appl. 1% Facing layer: 1.5%

7628-1  
7628-200  
7628-1000

1.000ml bottle  
200 litres barrel  
1.000 litres IBC container

customs code 3824 4000, no DG