

PREMIUM CONSOLIDATOR

Technical Data Sheet

Product Description

A solvent-based penetrating consolidator boosted with a water repelling sealer. Designed to provide the ultimate protection from salt spalling, freeze-thaw spalling, & ingress of water. Ideal for use in harsh salt water environments such as the splash zone of swimming pools, seaside residences and also in extremely cold climates.

Water-based	Penetrating (impregnating) Sealer	Can be used in wet areas	Can be used on polished surfaces	Can be used internally or externally
NO	YES	YES	YES*	BOTH
Allows Moisture Vapour Transmission	Repels Oil & Water	Alters appearance	Alter slip resistance	Can be used prior to grouting
YES	YES*	NO	NO*	YES

*Excess sealer can be buffed out using a white cloth and some of the consolidating sealer.

***Spirit Premium Consolidator** also contains a water repelling (hydrophobic) sealer.

For oil staining protection, a final seal with **Spirit Premium Seal** or **Spirit NPS** is required.

*When applied as per instructions there should be no impact on slip resistance.

Where to Use

Where natural stone has been used in harsh environments prone to freeze-thaw, or areas that are in repeated contact with salt water such as the splash line of swimming pools.

- Natural stones such as sandstone, limestone, travertine, terrazzo
- Concrete, concrete pavers, concrete blocks, precast concrete
- All types of terracotta and brickwork

Curing Time

Depending on the substrate it can take anywhere from 2 – 4 weeks for **Spirit Premium Consolidator** to build a bond within the substrate and fully cure. In laboratory testing the timeframe for curing before the necessary tests were conducted was approximately 3 - 4 weeks.

Coverage

Coverage will depend on the porosity of the substrate, temperature and method of application. Approximate coverage is for **2 coats** and is as follows:

Surface application (spraying, microfibre applicator, bristle brush): 4 – 8 square metres per litre.

Dip Sealing: Halve the approximate coverage rates listed above.

Available Sizes

1L, 4L, 10L & 20L

CLEANER & SEALERS FOR THE TILING INDUSTRY



APPLICATION OF PREMIUM CONSOLIDATOR

Before commencing sealing it is a requirement to test first before use.

Testing instructions

For new installations the test should be carried out on a spare piece of stone. For stone that has a lot of colour variation, it is advised to test on two different pieces, preferably one lighter and one darker. Put some painters tape down the middle of the test pieces. Using a dry absorbent white cloth, seal only one half to get an idea if

there is any colour change, keeping in mind that penetrating/consolidating sealers may slightly darken or lighten the stone. Follow the how to use guide below. Allow the sealed stone to cure for a minimum of 48-72 hours before testing the water resistance. The initial water resistance will improve over the 2-4 week curing period.

Note: For existing areas, test in an inconspicuous area if possible.

If you are unsure about any of the above contact Spirit Sealers before commencing.

How to use

1. The surface to be sealed must be clean and completely dry before sealing is done.
2. The ideal method for total consolidation is dip-sealing. Dip stone for a minimum of 20 seconds in a suitable sized tub, remove any excess sealer with a white absorbent cloth and stack the stone indoors or undercover out of the weather in a way that it can breathe while it cures.
3. For existing areas, apply **Premium Consolidator** evenly with a microfibre applicator, solvent-resistant low-pressure sprayer, or a dry absorbent white cloth.
4. To ensure total and even coverage, apply the first coat in a North/South direction. Apply the second coat in an East/West direction after approximately 5-10 minutes (wet on wet) before the first coat has dried. More coats may be applied following the above steps on very porous substrates to achieve deeper consolidation.
5. Once the last coat has been applied, use a dry absorbent white cloth to remove any excess sealer that hasn't penetrated into the stone after 5-10 minutes.
6. For vertical application, apply **Premium Consolidator** from the bottom up to prevent the sealer from leaving run marks down the wall.
7. Curing takes 2 - 4 weeks, but the sealed area can see foot traffic when dry to the touch.

Precautions

1. **Premium Consolidator** should only be applied in temperatures between 10-25 degrees Celsius.
2. It is very important that no water (including rain) comes into contact with newly sealed surfaces for a minimum of 10 hours after sealing, and at least 2 weeks before coming into contact with salt water. It is advised to check weather conditions prior to sealing exposed outdoor areas.
3. Use only in well ventilated areas, remove pets and ensure no foods are exposed while sealing.
4. Appropriate gloves, goggles, and a long-sleeved shirt must be worn during application along with an approved organic respirator while sealing.
5. **Premium Consolidator** is not intended for sealing of dense stone.

Coverage Depends on the porosity of the surface, temperature and method of application.

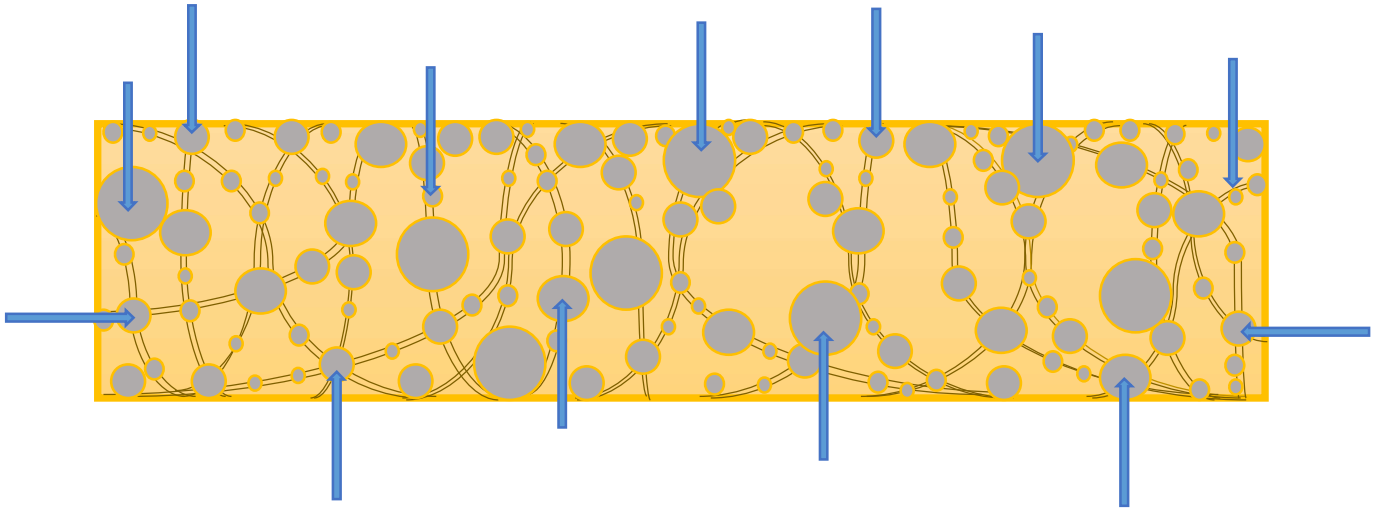
Approximate coverage rates per litre allowing for 2 coats: 4-8m².

*Dip sealing will approximately halve the coverage rate.

Clean up tools after application with methylated spirits

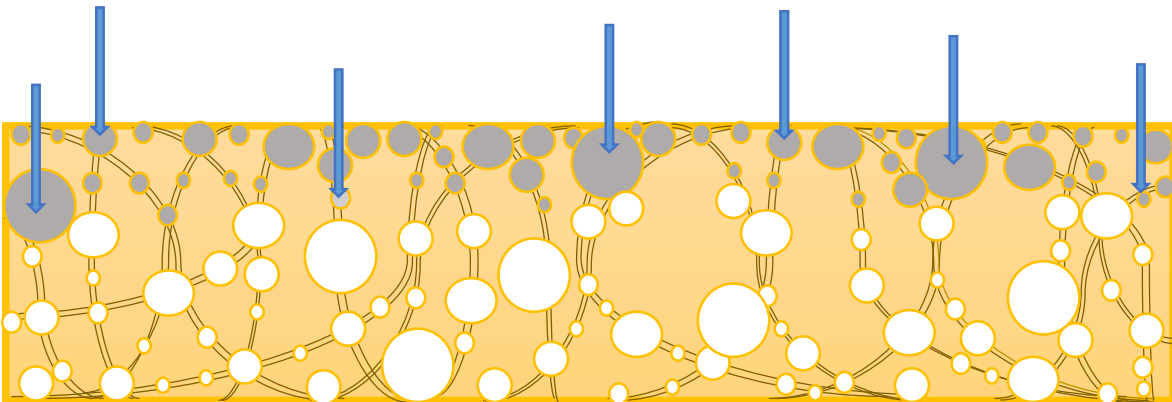


DIP SEALING WITH PREMIUM CONSOLIDATOR



Dip sealing is the only method that provides total consolidation of the stone, preventing salts or in extreme cold climates, ice from building within the pores of the stone from above, below and from the sides.

PREMIUM CONSOLIDATOR APPLIED TO ALREADY LAID STONE



Sealing stone that has already been laid will only provide surface level consolidation. How deep the consolidator will penetrate is totally dependent on the porosity of the stone. Sandstone would allow deeper penetration than limestone, but no stone will be as well treated after laying when compared to dip sealing.

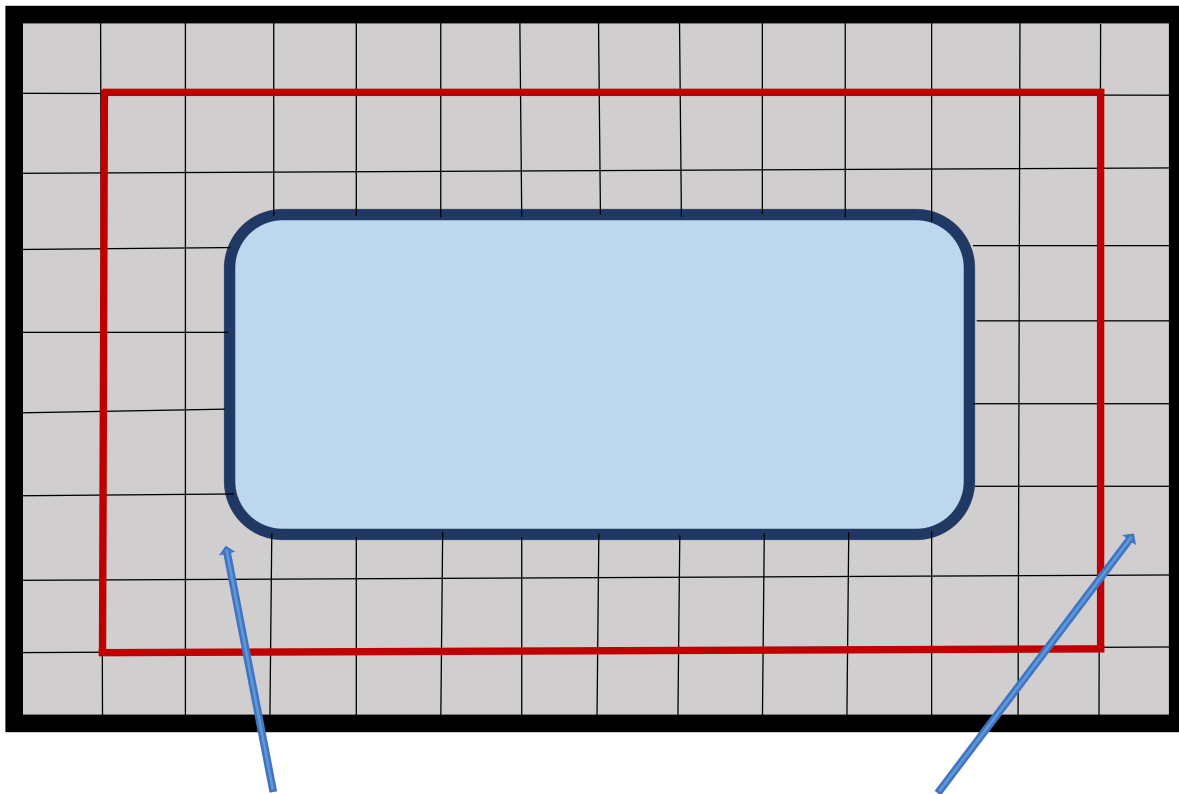
What area does the splash zone of a pool cover?

The splash zone is the area that will be in most contact with pool water. Depending on the job, there may only be a coping tile surrounding the pool to consolidate. In this instance, to achieve total and enduring consolidation it is a requirement to dip seal the stone.

For other jobs where there is a lot of stone surrounding the pool, it is a requirement to dip seal out to the designated 3-metre splash zone.

If the stone surrounding the pool goes out further than the 3-metre splash zone it is highly recommended to cover the rest of the area with a liberal coat of **Premium Consolidator**. This will eliminate any chance of variance in appearance and also give the surrounding area a degree of protection from salt-attack.

A final coat of **Premium Seal** or **NPS** should be applied once the consolidation process has had the required time to take effect which is a minimum of 2 weeks up to 4 weeks from the time of application.



Coping and splash zone area to be dip sealed.

Outer area to get a coat of consolidator.

Entire area receives a final coat of Premium Seal or NPS once the job is completed.



ADHESIVE SELECTION

IMPORTANT - Stone/material that has been dip sealed with **Spirit Premium Consolidator** will have high levels of water repellence, resulting in a denser/less porous surface. It is imperative to consult with your adhesive supplier for a suitable adhesive and application technique before installation.

SUBSTRATES THAT BENEFIT FROM CONSOLIDATION

- Sandstone
- Limestone
- Travertine
- Terracotta
- Terrazzo
- Concrete Pavers
- Concrete Blockwork

INSTRUCTIONS FOR USE

- Spirit Premium Consolidator is used neat.

DIP SEALING

- When dip sealing, submerge the stone for a minimum of 20 seconds.
- When dip sealing less porous stone, wipe down the face of the stone with a clean white cloth after dipping to avoid run marks and allow to dry.
- Do not stack the stone on top of or against each other, allow room for the stone to breathe and cure for at least 2 weeks before laying.

CONSOLIDATION OF ALREADY LAID STONE

- When sealing very porous stones like sandstone, use a solvent-resistant low-pressure sprayer. For less porous smoother finishes, use a microfibre applicator.
- Apply a liberal coat of Premium Consolidator and then wait for approximately 5 – 10 minutes before applying another coat. It is important to apply the following coat (wet on wet) before the first one has dried. Additional coats may be applied on extremely porous surfaces such as sandstone.
- After the final coat, wait again for 5 – 10 minutes and remove any pooling excess sealer.
- If excess sealer dries on the surface and is noticeable, it can be removed by wetting a clean white cloth with the sealer and buffing it out.

IMPORTANT - Rain, water or moisture must not come into contact with Premium Consolidator for at least 10 hours, and at least 2 weeks before coming into contact with salt water.

***Contact Spirit Sealers if you need further information regarding Premium Consolidator.**