

# **RESIBLOCK SUPERIOR™**

## **DESCRIPTION**

**RESIBLOCK SUPERIOR** is a urethane based low viscosity prepolymer in Hydrocarbon solvents. Its function is to bond the jointing sand and seal the surface of concrete block paving. Its penetration comes about by solvent evaporation, and polymerisation is created by the atmospheric and residual moisture effecting the cure. The resulting effect is an in-situ bond and stabilisation of the pavement that retains its normal flexural properties.

**RESIBLOCK SUPERIOR** is manufactured under the jurisdiction of BS 5750.

## **BENEFITS**

- Wet-look surface.
- Will not chip or peel.
- Stop blocks becoming stained by engine/fuel oil.
- Eliminate weed and grass growth in the sand joints.
- Prevent blocks becoming soiled by drink/foodstuffs.
- Reduce the nuisances associated with ants' nests.
- Stop loss of sand by wind, rain or pressure washers.
- Eliminate algae and lichen growth.
- Resists blocks from fading and will eventually darken (rather than fade), however lighter coloured blocks (inc. Grey) may become dark yellow/brown (particularly if over applied).
- Extremely weather resistant.
- Hard wearing, durable and long lasting, with a proven track record.
- Unaffected by water or ice.
- Enhance lost colour in old blocks.
- Provide a water resistant bond.
- Consolidates block joint infill.
- Provide a cleanable surface (often without the need for detergents).
- Highly resistant to a wide range of aggressive industrial chemicals.
- Not suitable for internal use.
- Treats pavers and joints at the same time.
- One component ready thinned and ready for use.
- Greatly improves resistance to tyre marking.

# **INSTALLATION INFORMATION**

## **COVERAGE**

**RESIBLOCK SUPERIOR** is a 2-coat system. Coverage can vary depending on absorbency levels, on new concrete pavers an average of 3sq.m. per litre can be expected on the first coat and 6sq.m. per litre on the second.

## **SUBSTRATE/SURFACE CONDITIONS**

Surface temperature must be above 3°C and below 30°C. The surface should be clean and free from oil, algae, dust and lime bloom. Substrate must be dry; application to damp or wet surfaces can result in poor adhesion and discoloration. Allow 8 weeks between paver installation and sealing (see notes on efflorescence). Jointing sand which contains moisture can prevent bonding and stabilisation of joints. Do not use if rainfall is forecast within 12 hours.

*Trade Tip. If you wish to see if the paving is perfectly dry, simply scrape out the jointing sand to a depth of 5-10mm; if it is dry, so are the blocks.*

All traces of kiln-dried sand on the face of the blocks must be scrupulously removed by a broom or garden leaf vac, (set to 'blow'). Also ensure that the sand does not protrude from the base of the chamfers. If the sand is not properly removed, it will be picked up by the RESI-ROLLER.

Ideally, at the time of installation, joints should not be filled with kiln dried sand. This would allow filling and compaction on the day that the surface is to be sealed. The jointing sand thereby being completely dry, allowing for optimum absorption conditions.

If pavers/joints have been previously treated with any other stabiliser or sealer, please refer to our Technical Department prior to application.

## **PREPARATION - NEW WORK**

Carefully measure area (in square metres) to be coated and allow a minimum of 5 litres for every 10 m<sup>2</sup>. Accurate application rates are essential to achieve full technical and aesthetic benefits. Please note coverage can be reduced by as much as 25% on old/worn/high-porosity pavers. A similar increased coverage can be expected on specialist designed pavers i.e. Marley Victorian Knott, Marshalls Tegula.

Furthermore it is essential that you have sufficient **RESIBLOCK SUPERIOR** before starting a project, because if subsequent material needs to be purchased to finish an area, and an overlap occurs, not only will a 'stripe' be evident, but if more than 24 hours has elapsed, then the overlapped portion may disbond.

On new work all that is usually required is a good sweep with a stiff broom, however if the surface has become partially weathered or contaminated, wirebrush to remove all debris. For large areas pressure cleaning may be more effective. Ensure joints are well filled to the bottom of the chamfers with clean, compacted kiln-dried sand. (See notes on substrate conditions re sand removal and moisture).

## **PREPARATION - OLD WORK**

The pavers must be cleaned by using a pressure cleaner to remove all algae and lichen. This operation will also *blast out* all weeds and grass, and most of the top layer of jointing sand from between the blocks. It should also remove all food and drink stains along with any surface dirt and grime.

If the pavers are badly stained with engine oil, replacement should be considered, as there is no effective way of entirely eradicating these stains. However if it is not practical or cost effective to do this, then before pressure cleaning, treat the stains with **RESIBLOCK O.R.**, and this should remove at least 75% of the stain. Notwithstanding, once **RESIBLOCK SUPERIOR** has been applied, it will darken the pavers, thereby camouflaging the remainder of the stain to a significant degree.

Once the substrate has been allowed to dry, the joints between the pavers must be re-filled using kiln dried sand. This can be done simply by placing fine dried jointing sand on the drive and sweeping in using a conventional soft broom, ideally on the same day the area is to be sealed. Finally completely remove surplus sand as previously described.

*Note.* Occasionally the action of washing or pressure cleaning will cause substrate saturation and reactivate efflorescence. Therefore allow **at least two weeks** between cleaning and application of **RESIBLOCK SUPERIOR** to allow to dry out and to check for reappearance.

## **EQUIPMENT**

**RESI-ROLLER** used on an extension pole. **RESIBLOCK SUPERIOR** should be put into a *Easi-Clean RESI-SCUTTLE* to prevent constant refills. 10cm brush for cutting-in.

## **METHOD OF APPLICATION - FIRST COAT**

Do not dilute **RESIBLOCK SUPERIOR**. Commence application by coating the perimeter of paved area, using a 10cm paintbrush, ensuring **RESIBLOCK SUPERIOR** is worked well into the 'cuts'.

Using the **RESI-ROLLER**, start at the top of the area, on the left hand side and work away from the building. Move from the left to the right hand side of the installation coating a 'band' approx. 1m deep. After arriving at the right hand side walk back to the left and begin a second 'band', and so on. This is to keep the 'wet-edge' going. Failure to do this particularly in hot weather, may cause 'zebra' striping. Further, to avoid 'tea-break' lines stop and start at a specific sand joint (cut-in using the 10cm brush).

Work material well into the untreated joints ensuring sufficient **RESIBLOCK SUPERIOR** has penetrated the jointing sand. A liberal (do not squeeze out roller) coat must be applied in a **uniform** and **even** manner, without any misses or puddles. *Do not* try to build using one coat, excess material particularly on light coloured (buff/grey) pavers, may become dark yellow/brown.

**Note.** Solvents are released during the cure that normally permeate through the sealer, however if the **RESIBLOCK SUPERIOR** is applied too thickly, the substrate is damp or excessively cold, bubbling may occur, giving the appearance of a white/milky residue.

**Trade Tip.** *If you need to walk on an area that is still wet, use an old pair of golf shoes.*

Care must be taken so that the jointing sand is not picked up from the chamfers and transferred to the face of the block. Porosity of blocks can vary substantially, even within an individual block. Furthermore, on an old or worn surface the absorbency can be substantially greater. Therefore should the surface appear 'hungry' (whilst still in the process of applying our sealer), then a more liberal, even coat should be applied. An even film thickness is essential to provide the maximum visual benefit. Ensure accurate spread rate of 3sq.m./litre.

## **METHOD OF APPLICATION - SECOND COAT**

Ideally both coats are done the same day. Apply first coat, and wait until it becomes **completely dry**. Then apply the second coat at right angles to the first, ensuring the entire area is uniformly and methodically covered. Minimum time between coats, 3 hours (at 20°C), maximum time between coats 24 hours. This time limit must be strictly adhered to otherwise disbonding and patchiness of the second coat may occur.

**Please Note.** In some circumstances 2 coats can reduce grip characteristics to an unacceptable degree, if unsure test on an inconspicuous area first. See separate notes on *Anti-Slip Surfaces*.

Ensure accurate spread rate of 6sq.m./litre.

**Kerbs.** Despite being a smoother texture, kerbing systems tend to be very porous and hence a third coat will be required; the foregoing coverage and application time constraints still apply.

## **CURING PERIOD**

**RESIBLOCK SUPERIOR** will normally be touch dry in about an hour, and cure sufficiently in 3-6 hours (20°C) to accept foot traffic. Full chemical resistance is achieved over 1-2 days. **RESIBLOCK SUPERIOR** is then able to accept vehicular traffic.

During the initial drying period it is essential to keep children and pets away from the installation.

## **ANTI-SLIP SURFACES**

In most cases **RESIBLOCK SUPERIOR** should not adversely affect the grip characteristics of the pavers. But on higher density pavers, gradients or S.S.F's (around fuel pumps), additional anti-slip qualities may be required if in doubt, try on an inconspicuous area first.

All that is necessary to achieve this is to dust dry jointing sand onto the first coat (whilst it is still wet) using the *broadcast* method, and then (when dry) apply the second coat of **RESIBLOCK SUPERIOR**; in effect 'sandwiching' the aggregate between the coats. This should provide an excellent anti-slip surface. **RESIBLOCK SUPERIOR** should not be used around swimming pools.

## **CLEANING TOOLS AND EQUIPMENT**

**RESIBLOCK SUPERIOR** cures rapidly when exposed to atmospheric moisture, to give a film that can only be removed with great difficulty. For this reason it is recommended that all equipment be cleaned immediately using **RESICLEAN**. Do not use other solvents as unknown synergistic reactions may take place. Wash with water and detergent afterwards. **RESICLEAN** is also effective in the removal of splashes and spillages of uncured sealer.

## **STORAGE**

Containers should be stored under cover and be protected from extremes of temperature. Partly used kegs should not be stored. Any remaining traces of **RESIBLOCK SUPERIOR** in used drums must be cured by leaving the containers open; and in dry conditions, putting water into each container.

## **SHELF LIFE**

**RESIBLOCK SUPERIOR** (unopened containers) has a shelf life of 18 months. All containers are marked with the use-by date.

## **HEALTH AND SAFETY GUIDELINES**

PVC gloves and protective clothing/face shield must be worn, plus use of a barrier cream on exposed areas of skin, as uncured **RESIBLOCK SUPERIOR** may be considered a hazardous material. *On no account should smoking or naked flames be allowed*, as our material is **FLAMMABLE**. Ensure area to be treated is well ventilated. If public access is allowed, erect NO SMOKING signs and site fire extinguishers.

A mask of the recommended type is essential when using a paintbrush, working close to the surface or internally. Sabre or Martindale is recommended.

Do not apply **RESIBLOCK SUPERIOR** in the presence of foodstuffs. Once fully cured the sealer can be considered innocuous. Do not clean hands with **RESICLEAN** as solvents tend to de-fat skin that can lead to dermatological problems.

Do not return unused material to original containers. **DO NOT RESEAL** or store partly used kegs. Material so stored may have poor adhesion and Carbon Dioxide may generate and put the drum under pressure, which might rupture the drum. Furthermore partial or total solidification of the sealant may occur.

*Please refer to Resiblock Limited's current Safety Data Sheets for the latest and comprehensive information on this section.*

## **EFFLORESCENCE**

Efflorescence also known as 'lime bloom' or 'laitence', can occasionally affect the appearance of pavers, shown as *white powdery* patches before application of **RESIBLOCK SUPERIOR** or *creamish* patches after it has been applied. Clearly as it is almost impossible to remove our product, one should take steps to reduce the incidence of efflorescence before sealing with our material. Whilst lime bloom is a naturally occurring phenomenon, following these guidelines will considerably reduce the possibility of this nuisance spoiling your finished drive or terrace:-

1. Apply **RESIBLOCK SUPERIOR** after a dry spell of at least 48 hours. Ensure that the entire paved area is perfectly dry by checking the sand joints as described under "Substrate/Surface Conditions".
2. Allow 8 weeks *after installation of pavers* before applying **RESIBLOCK SUPERIOR**. The more serious cases of efflorescence should appear during this period. On old installations allow at least 2 weeks after washing/pressure cleaning.
3. If lime bloom does show (before sealing), simply clean it off with **RESIBLOCK E.R.** (efflorescence remover). This will not only remove the white patches from the surface but from the upper layers of the blocks as well.
4. If in doubt please contact our technical department before using **RESIBLOCK SUPERIOR**.

Please Note. That whilst Resiblock Limited's published information should help considerably to reduce this problem, clearly efflorescence is due to a naturally occurring phenomenon/manufacture of the blocks, which is neither caused nor exacerbated by the application of **RESIBLOCK SUPERIOR**. Therefore we cannot be held responsible should this occur beneath the sealant.

*More information can be found on this subject by contacting the British Cement Association in Berkshire (01344 762676) and buying a copy of 'Appearance Matters 4 - Efflorescence on Concrete'.*

## MAINTENANCE

Whilst **RESIBLOCK SUPERIOR** brings many additional superb advantages to block paving, we do not suggest its looks are permanent. It requires maintenance to retain its appearance.

1. **Oil Spillage's.** No problem. If engine oil, diesel or grease is spilled onto your drive, simply apply a mild detergent with a soft scrubbing brush and rinse away. Provided a sufficient coating of **RESIBLOCK SUPERIOR** was applied initially, stains will be easily removed. Stubborn stains should first be released using **RESIBLOCK O.R.** and then washed off using a pressure cleaner.
2. **Algae/Lichen.** As the surface of your blocks is now sealed, this problem will have been greatly reduced. However, in areas where there is foliage or dampness, growth can re-occur. Washing and gentle scrubbing on a regular basis will remove such growth matter. Should this not be the case, pressure washing should release even the most stubborn growth.
3. **Weeds/Grasses.** If the original application of the **RESIBLOCK SUPERIOR** was carried out correctly, this will not occur. However occasionally small areas of sand may not have been fully penetrated by our sealer and hence tufts of grass can appear. All that is required is to pull out the weeds by hand and apply a small amount of the sealer into the joint by brush. 0.25 litre cans are available *free of charge* for this purpose.
4. **General Cleaning.** Over time the surface will lose its appearance through atmospheric borne grime, oil, food spillages, moss and animal waste, hence regular (seasonal) cleaning is recommended. This can simply be done with a pressure cleaner.
5. **Re-Coating.** Nothing lasts for ever, even **RESIBLOCK SUPERIOR**. On occasion it may be necessary to over-coat an area because it has worn through foot/vehicular traffic or simply to maintain a wet-look appearance. When this is required please refer to our Customer Services Department who can provide you with technical information sheet on how this process is achieved.

*Domestic customers - in order to qualify for the guarantee, a registration form must be completed. This can be obtained from Resiblock House, Archers Fields Close, Basildon, Essex SS13 1DW – telephone 01268 273344*

## LIMITATIONS

**RESIBLOCK SUPERIOR** is **not suitable** for engineering bricks, quarry tiles, clay pavers, yorkstone, indian sandstone, limestone, granite, marble, slate, quartz, patio slabs/flags, pattern imprinted concrete, wet-cast concrete paving, hydraulically pressed paving, exposed aggregate panels etc. Contact our technical department for more information.

*.....and finally, we really do care! We at Resiblock Ltd. are totally committed to ensuring you have the best possible job. So if you are in any doubt, **please** telephone 01268 273344 **before** starting your project, for friendly professional advice*

## **RESIBLOCK SUPERIOR**

### **APPLICATION GUIDE SUMMARY\***

1. Ensure adequate material is purchased. 25 litres will cover 50sq.m. @ 2 coats.
2. Make sure the surface and **jointing sand** is THOROUGHLY dry and free from dirt.
3. Ensure that **RESIBLOCK SUPERIOR** is only applied when there is no risk of rain within the next 12 hours.
4. Do not apply in extremes of temperature (below 3°C or above 30°).
5. Apply to new laid paving after initial 8 weeks and refurbished paving after 2 weeks. Remove any efflorescence with **RESIBLOCK E.R.**
6. Ensure paving is thoroughly swept and that no jointing sand remains in the chamfers of the blocks.
7. Apply to edges of paving with a paint brush and evenly to the main area using a RESI-ROLLER. 3sq.m./litre 1st coat, 6sq.m./litre 2nd coat. **RESIBLOCK SUPERIOR** must be laid as a 2-coat system.
8. A MINIMUM of 3 hours and a MAXIMUM of 24 hours between the first and second coats.
9. Avoid walking on the sealed area for 3 hours after application and do not drive motor vehicles on the surface for 24 hours.
10. ALWAYS WEAR PROTECTIVE GLOVES AND GOGGLES. NO SMOKING. WEAR A MASK WHEN WORKING IN CONFINED AREAS. Please refer to Resiblock Limited's current Safety Data Sheets for the latest and comprehensive information on this section. Please telephone 01268 273344 for a copy.
11. Only coat an area in which you can easily finish that day. If a break is required cut in to a sand joint using a paint brush to avoid a striped effect.
12. All uncured sealant and tools should be cleaned immediately using RESICLEAN.

**FOR FREE ADVICE TELEPHONE**

**RESIBLOCK**

**01268 273344**

- \* *This fact sheet is not intended to replace the full application instructions, which must be read prior to application.*

Whilst Resiblock Limited believe that the data contained herein is factual, the opinions expressed are those of experts (qualified or otherwise) regarding the results of tests. The data is not to be taken as a warranty or representation for which Resiblock Limited assumes legal responsibility. This data is offered solely for your consideration, investigation and verification. Any use of this data must be determined by the user to be according to the applicable laws and regulations

Resiblock Limited try to ensure any advice, recommendations or information we may give in product literature is accurate and correct. However, we have no control over the circumstances in which our products are used, hence our advice does not release **end-users from the obligation to satisfy themselves by prior testing that the product/s is suitable for their specific application, and that the actual conditions of use are suitable.**

Accordingly no responsibility can be accepted, or any warranty given by ourselves, our representatives, agents or distributors. Each end-user should always ensure that they have consulted our latest publications and that the relevant information concerning this material is communicated to all members of their organisation handling our products.

Resiblock Limited's liability is for replacement of material proved to be defective only. Products are sold subject to our Standard Conditions of Sale.

The Company's policy of continuous product development and improvement renders specifications liable to modifications. Information provided in this literature is therefore subject to change without prior notification.

This entire document is copyright protected. All rights reserved. First published in Great Britain 1993. No part of this publication may be produced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording and/or otherwise without prior written permission of the publishers.

© Resiblock Limited 1993