

RESIBLOCK '22'

INSTALLATION INFORMATION

On new projects, ensure paving is sealed with RESIBLOCK '22' simultaneously with pavement construction, on a daily basis. **DO NOT WAIT** until project is complete.

CONTAINER SIZES

RESIBLOCK '22' is available in 5 and 25 litre containers.

APPEARANCE

RESIBLOCK '22' in the container appears as a low viscosity prepolymer urethane having a hydrocarbon odour. Application will not significantly alter the appearance of concrete pavers other than a slight darkening of the surface having the effect of temporarily enhancing the inherent colours of the pavers. This will ultimately become absorbed giving the appearance of being unsealed.

COVERAGE

Coverage can vary between 1.6-2.4 m² per litre, (on new C.B.P. expect 2.0 m² per litre) depending on type of paver and depth of joint penetration required. In commercial areas which may be subject to a harsh environment or on clay pavers, the lower limit of coverage should be considered. Accurate application rates are essential to achieve full technical benefits. Furthermore material usage can increase by up to 25% on old/worn pavers or specialist blocks with wide joints i.e. angular/rumbled. Please consult our technical department for specific application rates. RESIBLOCK '22', being a single pack product, can be used straight from the container without thinning or addition of a reactive agent; it must not be diluted.

SUBSTRATE/SURFACE CONDITIONS

The surface should also be clean and free from oil, algae, dust and lime bloom. Temperature must be above 3°C and below 30°C. Application outside of these temperature ranges may be possible, but contact our technical department first. Surface should be dry. Jointing sand which contains moisture can prevent bonding and stabilisation of joints. Do not use if rainfall is forecast within 8 hours of project completion.

Trade Tip. If you wish to see if the paving is perfectly dry, simply scrape out the jointing sand to a depth of 25mm; if it is dry, so are the blocks.

Ensure that the sand does not protrude from the base of the chamfers, if the sand is not properly removed, it may be picked up by the application tools.

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

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 (cleanliness of clay pavers is more critical than on concrete blocks, if adequate bonding is to be ensured). For large areas pressure cleaning may be more effective. For successful use, optimum performance and maximum penetration of RESIBLOCK '22', ensure joints are well filled to the bottom of the chamfers with clean, compacted kiln-dried sand, complying to BS 6717 or equiv. (See notes on substrate conditions re. sand removal and moisture).

Ideally, at the time of installation, joints should only be half filled with kiln dried sand. In the event that the humidity has been increased with a water sprinkler, the remaining kiln dried sand may be added once the block paving has dried. Refer to Engineers note. This would allow final filling and compaction on the same day that the surface is to be sealed. The jointing sand thereby being completely dry, allowing for optimum absorption conditions of the RESIBLOCK '22'.

Application to poorly prepared pavers particularly in respect of dampness can result in inadequate joint penetration or paver adhesion, and in exceptional circumstances discoloration and disbonding.

Paving Slabs. Use RESIECCO.

Engineers note. Application specification should note moisture content of the pavers not to exceed 6% and air temperature should be checked to ensure it is within 3°C of the dew point. In an exceptionally dry atmosphere, increase the humidity, e.g. with a water sprinkler, the block paving should then be allowed to dry, leaving sufficient residual moisture to allow polymerisation to take place.

PREPARATION - OLD WORK

This is probably the most essential part, inasmuch as it will determine the technical standard of the finished paved area. The pavers must be thoroughly cleaned 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.

Note. Occasionally the action of washing or pressure washing will cause substrate saturation and/or reactivate efflorescence. Therefore allow 2 weeks between cleaning and application of RESIBLOCK '22' to allow to dry out and to check for lime-bloom reappearance.

Once the substrate has been allowed to thoroughly 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 onto the paving and sweeping in using a conventional soft broom. Finally completely remove surplus sand as previously described.

More detailed information on block/brick cleaning can be found by contacting the Brick Development Assoc. in Berkshire (01344 885651) and obtaining a copy of their publication 'Building Note 2 - Cleaning of Brickwork'.

EQUIPMENT

RESIBLOCK SQUEEGEE.

METHOD OF APPLICATION

Application to concrete or clay pavers can be sealed using this method. An area approximately 1m by 10m should be marked out and the contents of a 5 litre container (gauging pot e.g. 5 litre watering can with rose attached) evenly poured out over the designated area. This should be immediately spread out and wiped from the surface and into the paver joints using a RESIBLOCK SQUEEGEE. Sufficient material should be worked into the joints so it will initially **fill the chamfers** (ultimately to be completely absorbed). Surplus RESIBLOCK '22' must not remain on the paver surface but squeegeed into the joints as described; this is CRITICAL ON CLAY PAVERS.

Note. Solvents are released during the cure that normally permeate through the sealer, however if the RESIBLOCK '22' 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.*

TWO-COAT APPLICATION

A second coat is not normally recommended unless it is required to render the surface impervious. Please telephone 01268 273344 for more information.

NOTE. CLAY PAVERS MUST ONLY HAVE 1-COAT.

ANTI-SLIP SURFACES

In most cases RESIBLOCK '22' should not adversely affect the SRV (grip characteristics) of the pavers. But on higher density pavers, gradients, SSF's (around fuel pumps), or specialist area (airfields, equestrian facilities, wheelchair access points) and particularly when used as a two coat system, 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 '22'; in effect 'sandwiching' the aggregate between the coats. This should provide an excellent anti-slip surface.

CURING PERIOD

Rapid initial cure will take place depending on ambient temperature, humidity and block porosity; 1-3 hours can be expected. Immediately the surface is dry the paved area can be subjected to foot or light traffic but full chemical cure must be allowed to take place (24 hours) before being subjected to full traffic use.

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 '22' in used drums must be cured by leaving the containers open; and in dry conditions, putting water into each container.

SHELF LIFE

RESIBLOCK '22', (unopened containers), has a shelf life of 18 months. All containers are marked with the use-by date

CLEANING TOOLS AND EQUIPMENT

RESIBLOCK '22' 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 RESIBLOCK '22'.

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 '22' may be considered a hazardous material.

No smoking or naked flames, as RESIBLOCK '22' 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 '22' in the presence of foodstuffs. Once fully cured RESIBLOCK '22' 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 Material Data Sheets for the latest and comprehensive information on this section.

LIMITATIONS

RESIBLOCK '22' is **not suitable** for pattern imprinted concrete, engineering bricks, quarry tiles, marble, granite, exposed aggregate panels etc. Contact our technical department for more information. RESIBLOCK '22' will resist slabs from fading, by eventually darkening, however lighter coloured paving units (inc. buff/grey) may become dark yellow/brown (particularly if over applied).

*...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.***

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APPLICATION GUIDE SUMMARY*

On new projects, ensure paving is sealed with RESIBLOCK '22' simultaneously with pavement construction, on a daily basis. DO NOT WAIT until project is complete.

1. Make sure the surface and **jointing sand** are THOROUGHLY DRY and free from dirt.
2. Ensure that RESIBLOCK '22' is only applied when there is no risk of rain within the next 8 hours.
3. Do not apply in extremes of temperature (below 3°C or above 30°C).
4. Ensure paving is thoroughly swept and that no jointing sand remains in the chamfers of the pavers.
5. Apply to surface using a watering can (with the rose) and remove all surplus with the SQUEEGEE.
6. Accurate application rates are critical to ensure full joint stabilisation (typically 1 litre/2m²).
7. A MINIMUM of 3 hours and a MAXIMUM of 24 hours between the first and second coats. Two coats are recommended to prevent fuel/water infiltration. ONE COAT ONLY on clay pavers.
8. Avoid walking on the sealed area for 3 hours after application and do not drive motor vehicles on the surface for 24 hours.
9. ALWAYS WEAR PROTECTIVE GLOVES AND GOGGLES. NO SMOKING. WEAR A MASK WHEN WORKING IN CONFINED AREAS. Please refer to current MSDS.
10. All uncured spillage's/splashes, and all tools must be cleaned immediately with 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.***

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