



Ammended March 2018

## DATA SHEET

### TWIN PACK SEALER & PIGMENTED TWIN PACK

#### DESCRIPTION:

Africote Twin Pack Sealer (TP) is a clear gloss UV (ultraviolet) Polyurethane. The sealer is a solvent based two-part sealer designed to give a durable hard-wearing surface when applied over Africote's Flooring and wall products, Chemstain and other concrete surfaces.

Total film thickness for 2 coats of TP sealer is 100 to 300 microns.

Suitable for internal and external use. (UV stable)

#### SURFACE PREPARATION AND INSPECTION:

Surface must be clean, dry and sound. Free of any powdering and moisture. Any contamination will result in product failure. We recommend a vacuum cleaner as with brooming a surface, dust ends up in the air and settling on a newly coated area. This leaves the floor rough to the touch. These grit particles can be removed by foot traffic, which will pull the sealer off. Leaving the floor compromised.

**Note that TP sealer is very sensitive to moisture. Ensure the moisture in the substrate is below 4% AND the moisture in the air (Relative humidity) is below 75% - Use a hygrometer to measure the moisture content of the air.**

Do not apply TP if there is a threat of rain.

Water reacts with the hardener, so there will be less hardener to react with the Sealer base. This will compromise the final film.

Applying sealer to hot or sun-baked surfaces can cause a host of problems.

It is ideal to apply while cool with ambient temperature constant or dropping.

#### COLOUR VARIATION:

Sanding of the floor will cause a difference in porosity. All areas sanded will show up as darker areas. Trowel marks etc will also show up as different colour shades. To ensure an even appearance the entire area must be treated in the same manner.

The TP sealer will highlight any marks on the floor. The TP sealer will darken all surfaces by 3 to 5 shades.

To reduce the darkening effect, first apply an even coat of Africote Matt Sealer and allow to dry for a minimum 24hours. Longer in cool and/or humid conditions.

#### MIXING:

Use only clean & dry metal containers.

Mixing Ratio is 4 parts Sealer to 1 part Hardener. It is best to mix the entire contents of our pre-packed kit of Hardener and Sealer.

Add the contents of the container marked HARDENER to the container marked SEALER. The Sealer container is larger than the Hardener container. The Sealer container is not full to allow space for the Hardener and mixing.

Using a suitable mechanical stirrer, thoroughly mix sealer with hardener. Mix slowly to minimize air entrapment.

For air assisted spraying the first coat may be diluted up to 20% with TP Solvent. **NB:** Make sure all tools and containers used for mixing are clean and moisture free.

**Do not mix more TP Sealer with Hardener than can be applied within a maximum of one hour. On hot summer days the pot life could be less than one hour.**

**NB.** Once mixed the Twin Pack sealer must be used. Closing the tin will not stop the sealer hardening. Mixed TP sealer that is sealed in a container will not attain the hardness it does on the floor, as the solvents cannot evaporate.

#### **APPLICATION OF TP SEALER:**

**Before application a moisture test must be carried out over the entire surface to be coated. The floor may look dry but some areas may contain moisture.**

In virtually all surfaces there are many tiny holes that are not visible to the naked eye. For this reason, the sealer needs to be thoroughly rolled out in all directions to fill the holes and voids. Always finish rolling or brushing the 1<sup>st</sup> coat in the same direction. For the second coat finish rolling at 90 degrees to the 1<sup>st</sup> coat. (Cross hatching)

Stick to an application pattern. This is most important, especially for the 2<sup>nd</sup> coat as it is not easy to see where there are one or two coats. Any uneven application will be very visible on the floor in reflected light.

If the substrate is colder than the surrounding air temperature, ensure there is no condensation (dew) on the floor or ceiling. This will compromise the sealer and problems will occur.

Use a **dry** short mohair roller or quality paintbrush. Roll to an even thickness **slowly**, cross roll to avoid roller join marks. Maintain a wet edge at all times. Complete entire floor in one single operation.

Keep coats thin. Thick coats can cause orange peeling.

Africote TP can also be spray-painted. Use only TP solvent to reduce viscosity. **Do not use lacquer thinners to dilute TP sealer.**

Allow the first coat to dry for a minimum of 24 hours. Ensure there is sufficient ventilation to allow the sealer to dry. (Watch for dirt blowing onto a newly sealed floor.) This will embed itself and make the surface rough to the touch.

In **cold and humid** conditions allow the first coat of TP a minimum of **3 full days** to dry before over coating. Check to see that the first coat is hard and dry.

If Matt Sealer is applied as a first coat then:

- Allow the Matt Sealer to dry for 24 hours before the first coat of TP sealer.
- Wait for a minimum of 36 hours (extra 12 hours) before applying the second coat of TP.

**NB:** Dust particles will result in an uneven and unsightly finish. To remedy:

- Sand areas showing pockmarks from dust particles with 320 grit water paper.
- Wipe areas with xylene solvent and allow xylene to flash off (evaporate) for about 1 hour.
- Now apply a second coat TP Sealer as above.
- Allow to dry and harden for 24 hours. Longer in cold weather.

Solvents in the TP sealer will dissolve dried paint on the brush or roller. The dissolved paint will leave marks in the applied TP. For this reason a new or clean brush or roller must be used.

**NB: TP Sealers take 7 days or longer for full cure and therefore care should be taken within the first week.**

#### **Application of second or subsequent coats TP sealer after 5 days or longer.**

Should a 2<sup>nd</sup> or a further coat of TP be applied after 5 days has elapsed since the previous coat, the floor should be sanded with a medium sandpaper, vacuumed, or wiped down with a dry cloth to remove all dust. The sanding must scour the entire surface otherwise delamination will occur in the patches not sanded. If TP is applied after the floor has been in use it should be washed down with Africote GP Degreaser to remove any sign of grease or oil. Then proceed as per application after 5 days.

**MAINTENANCE AND RE SEALING:**

Please note TP sealer will lose its lustre after various cleaning sessions. The floor will remain a satin finish.

**Re Sealing:**

Thoroughly clean the floors using either, Africote Degreaser. Use 220 grit sandpaper. Be careful not to sand through the sealer. These areas will appear darker once the sealer is applied, remove dust with a vacuum cleaner and re seal.

**Maintenance:**

If the Mop-and-pail method is used, ensure the water is replaced regularly. The mop must not be soaked. Use Africote GP cleaner as instructed by the datasheet. Do not flood the floor with water.

**GENERAL FLOOR HOUSEKEEPING:**

High heels will leave marks in the surface.

Chairs with a small footprint and/or sharp edges on the foot-piece may leave marks. "Rocking" on a chair intensifies the pressure on the floor.

Cover the foot-piece of the furniture with felt or a plastic cap.

Do not drag heavy furniture across the floor.

When dropped, heavy knives and cutlery can penetrate the sealer, leaving a small and almost invisible hole.

If the floor is regularly cleaned with a mop, water penetration will occur at these tiny holes and dark spots will appear.

Pinholes can be cleaned out with a degreaser and toothbrush.

No harsh chemicals are to be used on the floors ie: handy andy.

It is not recommended to use any detergent that contains wax, this builds up a residue and attracts the dust and grime.

Dust and dirt particles that are hardly visible act as an abrasive. The best method to remove dust is with a vacuum. Vacuum prior to mopping.

Mopping with a damp (NOT wet) mop is effective if the area is generally clean. For areas where there is more dirt and spillage, a mop must be rinsed regularly otherwise the dirt is just spread around. Replace the water in the pail regularly.

With regular mopping, sweeping and cleaning of a sealed floor, including penetration of dust particles the lustre will be diminished.

CAUTION where the floor meets and stops at a wall, there is generally a point of access for moisture. As the mop squeezes against the wall, moisture can be left behind. This will result in dark marks.

<b>Packaging:</b>	1 L plus 250ml hardener 5L plus 1L hardener
<b>Coverage:</b>	8 to 12 sq meters per litre.
<b>Shelf Life:</b>	6 Months in sealed containers. Sealer & Hardener kept separate. Store in a cool dry place.
<b>Cleaning of Tools:</b>	Use Africote TP solvent or Lacquer Thinners.

**Health and Safety:**

This product contains volatile solvents. Avoid inhalation. Contact with wet product may cause irritation or burn sensitive skin. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory protection.

Similar to all smooth finishes, TP sealers are slippery when wet.

**Caution. The product is highly flammable.**

The product should not be exposed to a naked flame. No smoking during application. Ensure sufficient ventilation during application.

**EYES:** In case of contact with eyes do not rub. Immediately flush with plenty water. If condition persists, consult a Doctor.

**SKIN:** Wash thoroughly with soap and water. Remove soiled clothing. If irritation persists, consult a Doctor.

**INHALATION:** Move to fresh air.

**Do not take internally. Keep out of the reach of children.**

When spraying TP sealer, do not inhale the fumes. Suitable protection and prevention must be taken.

**NB:** No claims will be entertained where applications are done using other manufacturer's products in combination with Africote products. This includes bonding liquids, filler coats, sealers, undercoats etc. **NB:** Due to ongoing research and development undertaken on our coatings and the application process, coupled with technological advances in the industry, please consult our factory to ensure you have the latest Data Sheet.