



Part of Prismo Global

Water Based Acrylic Paint

Helix with Antiskid

APPLICATION METHOD

PRODUCTS

Water based acrylic area marking paint containing premix antiskid materials.

DESCRIPTION

- For application on asphalt and concrete surfaces.
- Apply with air-assisted machines or hand tools. Not suitable for airless machines.

STORAGE

- Keep the pail dry and covered.
- Protect from heat, frost, humidity, direct sunlight and adverse weather.
- Store at a minimum temperature of 10 °C, and a maximum temperature of 30 °C.

HEALTH AND SAFETY

- Please read technical and safety data sheets in full before applying the product.
- This product is intended for use by trained professionals only.
- Appropriate Personal Protective Equipment (PPE) must be worn, including suitable protective clothing, gloves and eye protection.

APPLICATION CONDITIONS

- Road surfaces shall be free from defects.
- Existing road markings that are going to be overlaid shall be removed.
- Surfaces should be clean, dry and free from dust, oils, solvents, fuels, anti-freeze salts, or any other soiling that may affect adhesion or performance.
- Dirty or contaminated road surfaces shall be thoroughly cleaned prior to the application of road markings to ensure the formation of a strong bond between the paint and the road surface.
- A surface temperature of 10 °C – 45 °C is required when applying the product to ensure proper adhesion of the product to the substrate.
- For application on asphalt, primer is generally not required, but very aged or weathered asphalt with reduced bitumen content will require priming. Primer must be fully dry before application to prevent bubbling and poor adhesion.
 - Allow at least 4-6 weeks prior to application on newly applied asphalt to prevent adhesion problems and/or blackening of the markings. Test a small section of the substrate after this time to ensure it is suitable for application.

- For application on concrete and cementitious surfaces, the substrate must be perfectly aged and free from release agents or dust-proof treatments. There must be no rising humidity or salts formation detected. Primer is generally required, and additional grit blasting or scabbling is recommended especially if the surface is in a smooth or poor condition. Primer must be fully dry before application to prevent bubbling and poor adhesion.
- For optimal results, allow 24 hours for the primer to fully dry before paint application.

We recommend test trials to check compatibility and adhesion before application.

APPLICATION PROCESS

The material is applied using air-assisted marking machines, handgun, brush or roller.

1. Open the pail and mix the product until fully homogenised using a mechanical mixer for at least 2 minutes.
2. Applying the product:
 - **If using air-assisted machinery**, consult the TDS for specific dilution requirements. If dilution is necessary (e.g. when applying in low temperatures), pour the recommended amount of water into the original pail and mix thoroughly until homogenous with a mechanical mixer. Transfer the mixed paint to the machine tank. Adjust the machine settings (nozzle size, air pressure etc) to achieve the specified wet film thickness. Maintain a uniform application speed throughout the application.
 - Before beginning the project, it is advised to calibrate the equipment by spraying a test line onto a flat, clean metal plate at the intended application speed. Immediately check the wet film thickness using a gauge to ensure it meets specifications.
 - Avoid very low speeds, as this will apply an excessively thick film, potentially leading to issues like poor adhesion to the substrate, cracking in the applied product, and extended drying times.
 - Avoid very high speeds, as this will apply an excessively thin film, compromising coverage and reducing durability.
 - Poor application will reduce performance.

- **If using a handgun** (for smaller-scale works), pour the paint into the machine tank and apply the material.
 - **If using a brush or roller** (for smaller-scale works), first tape the area to be marked and carefully pour the mixed product onto the surface to be applied. Use a suitable brush or roller to apply a uniform layer of the product in the marked area, taking care not to apply a high thickness to avoid cracks forming in the surface film. Remove the tape before the product is completely dry.
 - A single coat is typically sufficient. However, if a second coat is desired, allow the first layer to dry completely before applying the second coat with an air-assisted machine or handgun. Please note: High temperatures and/or high humidity will extend drying times.
3. Glass bead/aggregate application:
- Immediate retroreflectivity/skid resistance is achieved with either a built-in pressurised drop-on system or manual hand-held dispenser. The drop-on material must be broadcasted **immediately** after paint application to allow proper embedment before the product dries.
 - After application of drop-on aggregate, a thin layer of paint can be applied with air-assisted machinery/handgun to ensure a uniform colour.
 - Please note: Do not apply the drop-on after the paint has dried as it will prevent proper embedment and will affect the reflectivity/skid resistance of the applied markings.
4. Immediately clean all equipment after use with water before the material dries. This includes the mixer, machine parts, hoses, nozzles and all other affected tools. Never leave paint in the tanks, guns or pipes overnight. Failure to comply with cleaning requirements can cause premature wear and damage to machinery (not attributable to product).
5. Ensure the marking is fully dried before opening to traffic to prevent blackening and dirt accumulation.

For any questions, problems or advice, please contact Vernisol™.