COVAL MATTING AGENT

Technical Data Sheet

www.covaltechnologies.com

Coval Matting Agent

I.PRODUCT DESCRIPTION

Coval Matting Agent is a high-purity pyrogenic silica engineered to modify the surface texture of Coval coatings, delivering a uniform matte or low-gloss finish. By altering the surface microstructure, the matting agent increases light diffusion and reduces reflectivity without compromising the integrity of the coating.

In addition to its aesthetic function, **Coval Matting Agent** enhances surface performance by increasing the dynamic coefficient of friction, making it particularly effective for flooring applications where slip resistance is critical, especially in areas prone to moisture or wet conditions.

Coval Matting Agent is supplied as a dry additive and is designed to be easily integrated into Coval's line of coatings at the point of application. Its ultra-fine, low-density particles allow for precise adjustment of finish characteristics, supporting both safety and design goals.

II.PRODUCT PROPERTIES

1. White Powder
2. Density (20C/ 68F) 2.2g/cm3
3. pH 4.0–6.8
4. BET Surface Area 107 – 230 m²/g
5. Sieve Residue <0.3%
6. Loss on Drying <0.6%
7. Carbon Content: 4.0 – 5.2%
8. Surface Modification - Polydimethylsiloxane

III.APPLICATION GUIDELINES

Achieving the desired matte finish will depend on several variables, including surface texture, color, and reflectivity. These factors can influence the perceived level of gloss, so we recommend conducting small-scale tests to determine the optimal concentration of matting agent for each specific application.

Dosage:

Coval Matting Agent may be added up to a maximum of 1.5% by weight of the coating. Matting agent is packaged to be 0.5% by weight in either 1 or 5 gallon pack sizes.

To calculate the required amount (**Coval Concrete/Metal/UTC**):

1. Determine the total volume of coating needed in gallons.
2. Use 1 MTA-1 container per gallon for Satin, or 2 MTA-1 containers per gallon for Matte.
3. For larger projects, use 1 MTA-5 container per 5 gallons for Satin, or 2 MTA-5 containers per 5 gallons for Matte.

To calculate the required amount (**Coval Vinyl/Anti-Graffiti)**:

1. Determine the total volume of coating needed in gallons.
2. Use 1 MTA-1 container per gallon for Matte or.
3. For larger projects, use 1 MTA-5 container per 5 gallons for Matte.

Mixing Instructions:

For best results, add the coating gradually to the measured matting agent, not the other way around. This approach facilitates easier dispersion and promotes a uniform mixture. Once the matting agent is fully incorporated and evenly suspended, the premix can be blended with the remaining coating.

Health & Safety:

Coval Matting Agent is composed of ultra-light fumed silica and can easily become airborne. Always wear an appropriate respirator or dust mask during handling and mixing in a well-controlled, low-airflow environment to minimize inhalation risk.

IV.SAFETY NOTES

For full safety guidance, please refer to the **Coval Matting Agent** Safety Data Sheet (SDS), available upon request or downloadable from our website at: *www.covaltechnologies.com*

Coval Matting Agent is a fine, dry powder that may become airborne during handling. Use appropriate personal protective equipment (PPE), including a dust mask or respirator, safety glasses, and gloves. Always handle in a well-ventilated area with minimal air movement to reduce inhalation risk and dust dispersion.

Due to its extremely low bulk density and dry composition, the product may generate electrostatic charges during transportation or mixing. Ensure that grounding and bonding procedures are in place when handling large quantities to minimize the risk of electrostatic discharge.

Avoid contact with skin, eyes, and clothing. In case of exposure, follow standard first aid procedures as outlined in the SDS.

V.STORAGE INSTRUCTIONS

Coval Matting Agent should be stored in its original, tightly sealed container in a cool, dry, and well-ventilated area. Protect from moisture, humidity, and direct sunlight, as exposure may impact product flowability and dispersibility.

Keep the container tightly closed when not in use to prevent contamination and the release of airborne particles. Avoid storing near sources of ignition or strong oxidizers.

As the product is electrostatically active, ensure that storage areas are free from static discharge risks. Use only grounded, non-sparking tools and equipment when transferring material. Shelf life is typically 12 months from the date of manufacture, provided storage conditions are maintained according to the guidelines above.

All transactions are subject to our Standard Trading Terms and Conditions, a copy of which is available from us or at our website.

VI.ENVIRONMENTAL INSTRUCTIONS

Coval Matting Agent is an inorganic, non-toxic material that poses minimal risk to the environment when handled and disposed of properly. However, due to its ultra-fine particle size, precautions should be taken to minimize airborne dispersion during use and disposal.

Do not allow large quantities of the product to enter drains, watercourses, or soil. Avoid generating dust that could be carried by wind into surrounding areas. Spills should be collected using methods that minimize dust formation, such as vacuum systems equipped with HEPA filters or damp sweeping.

Dispose of waste material in accordance with local, regional, and national environmental regulations. Packaging materials should be recycled or disposed of responsibly.

Always consult the product's Safety Data Sheet (SDS) for specific regulatory guidance on environmental impact and disposal procedures.

VII.CARE AND MAINTENANCE

Once **Coval Matting Agent** has been fully incorporated into a cured Coval coating, no special maintenance is required for the matting agent itself. However, to preserve the appearance and performance of the matte finish, routine care of the coated surface is recommended:

- Clean regularly using a soft cloth or mop with a mild, pH-neutral cleaner. Avoid abrasive scrubbers or harsh chemicals that may damage the surface texture or diminish the matte effect.
- For floor applications, sweep or vacuum frequently to prevent buildup of dirt or grit that could scuff the finish.
- Avoid prolonged exposure to standing water or aggressive cleaning agents, especially in high-traffic areas.
- In cases where reapplication of coating is necessary, ensure that the original surface is properly cleaned and prepped before applying a new layer with the desired level of matting agent.

VIII.CLEAN-UP INSTRUCTIONS

Coval Matting Agent is an ultra-light, fine powder that can easily become airborne during use. Careful clean-up is essential to maintain a safe working environment and to prevent the spread of dust.

Dry Powder Clean-Up (Before Mixing):

- Avoid using dry sweeping or compressed air, which may disperse airborne particles.
- Use a HEPA-filter vacuum or damp cloth/mop to collect spilled material safely.
- Wear appropriate personal protective equipment (PPE), including a dust mask or respirator, gloves, and eye protection.
- Collect and dispose of material in accordance with local regulations.

Post-Mixing Clean-Up:

- Clean all tools and mixing equipment with appropriate solvents or cleaners recommended for the specific Coval coating used.
- Do not allow material to cure on tools; clean promptly after use.
- Dispose of liquid waste and solvent-soaked materials in compliance with environmental and safety guidelines.

General Precautions:

- Always clean in a well-ventilated area, away from open flames or ignition sources.
- Prevent waste from entering drains or water systems.

Please see Coval FAQs for the specific product online at www.covaltechnologies.com.

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