

Improving Paints and Elevating the Performance of Coatings

Busperse® 47 reduces viscosity, enhances dispersion stability.



Busperse 47 is a 100% concentrated, zero VOC, nonionic dispersant composed primarily of dimethylamides of unsaturated fatty acids, specifically designed for

solvent-based coatings. This innovative dispersant is 85% biobased, derived from vegetal sources, and is soluble in both polar and nonpolar organic solvents. It excels in reducing viscosity and provides superior corrosion inhibition by forming a dynamic, protective film-barrier on surfaces, effectively preventing degradation in harsh environments.

How to use: Busperse 47 operates effectively at use levels ranging from 0.2% to 0.5% of the total formula weight, aiding the dispersion of challenging pigments such as organic reds, yellows, oranges, and various black pigments. Its nonionic nature provides broad compatibility across a wide range of coating vehicles, simplifying formulation processes.

Viscosity reduction and dispersion: Viscosity reductions of 5-10 seconds using the #2 Zahn cup have been observed, especially in polyester and epoxy-based coatings. Busperse 47 optimizes pigment dispersion, provides long-term viscosity stability, prevents crystal formation, and minimizes pigment agglomeration, making it a key component for high-solids solvent-based coatings. For optimum viscosity reduction, it may be necessary to add Busperse 47 to both the grind portion and the letdown.

Enhance paint and coating formulation and application with Busperse 47.

- ✓ Unmatched dispersant, stabilizer and viscosity reducer; unique Buckman-proprietary chemistry.
- ✓ Corrosion inhibition through dynamic film-barrier protection.
- ✓ Innovative 85% biobased chemical derived from vegetal sources.

Transform paints and coatings. Redefine performance.

Busperse® 47 is a versatile penetrant, dispersant, and solvent. Its exceptional effectiveness supports the enhancement of your product creation and boosts overall performance in various applications.

Key Benefits of Busperse 47

Reduces viscosity and thickness for easier application

Busperse 47 effectively reduces the viscosity of liquid coatings, making them thinner and easier to apply. This reduction is especially beneficial in solvent-based coatings, where Busperse 47 demonstrates its effectiveness. It is particularly noted for its performance in polyester and epoxy-based products, providing smooth and consistent application.

Effective on Polyester and Epoxy-based Products, Water Resistant Materials

Busperse 47 has been particularly effective in enhancing the smooth and consistent application of coatings made from polyester and epoxy resins, which are commonly used in paints, coatings, and other materials due to their durability and resistance to chemicals and environmental conditions. Additionally, Busperse 47 is effective in water-resistant coatings, where the Hydrophilic-Lipophilic Balance (HLB factor) is crucial. The HLB factor plays a key role in achieving the right balance between water resistance and adhesion, maintaining coating performance under various environmental conditions.

Enhances stability of formulations

Busperse 47 reduces viscosity and significantly enhances the stability of formulations. It prevents agglomeration when blending different resins, leading to a more stable and consistent product. Additionally, Busperse 47 allows for higher solids content in paints while maintaining the desired viscosity, which contributes to better performance in the final application.

High-performance corrosion protection

In high-performance corrosion protection, Busperse 47 plays a crucial role in extending the service life of products, reducing the element of cracking and peeling. It creates a mono-molecular protective barrier film that safeguards metals, preventing corrosion and maintaining long-term equipment integrity while deterring significant damage caused by exposure to corrosive materials. This is especially effective in sectors like:

- Agricultural & industrial machinery
- Automotive
- Windmills
- Transmission pipes
- Construction & bridges
- Marine & military applications

In wood protection, improves penetration of biocides

Busperse 47 has been shown to improve the penetration of biocides into cellulosic substrates when added to wood-protective coatings and sealers. This enhanced penetration allows fungicides to effectively treat rotted timber, halting decay and preventing further fungal growth, thus preserving the integrity of the wood.

Learn more

For more information on the use of Busperse 47 in Paint & Coatings, please contact your Buckman sales representative or visit our website at buckman.com.

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Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including **NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE**. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. B331H (09/24)

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