

Hofmann Microbead Coat

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Hofmann Microbead Coat is trowel able mass formulated with proprietary materials of sapphire hard high alumina beads of specific size and silicon carbide doped in resin matrix with reinforcement. Hofmann Microbead Coat is a protective coating providing a surface resistance to abrasion and chemical attack. Microbead is an excellent remedy for the preventive maintenance of any plant where erosion and corrosion are chronic problem.

Microbead is a thixotropy formulation which permits both vertical as well as horizontal application with simple hand tools. Hofmann Microbead Coat can also be cast and molded in to wide variety of shape and pattern.

Microbead consist of sapphire hard beads of 90% alumina having a bead hardness of 9 on MOH scale. It can be applied on any surface like metal, ceramic, plastic, concrete etc. to convert the soft surface to sapphire hard, chemical and corrosion resistant.

Surface Preparation

Before apply of Microbead coating on any surface, clean the surface by brush to make it free from Rust, Grease, oil, paint or other loose contamination. Roughen the surface by coarse sand paper or flap wheel of 40 grit or sand blast with AFS 40 grade of silica to ensure clean and rough surface for better adhesion.

Apply primer by brush on the surface to be coated with Microbead Immediately after roughening the surface.

Mixing And Application

Mix both content of resin and hardner as per mix ratio indicated on label of container. Take only require quantity which can be use within 30min. after mixing. Gradually mix with spatula until uniform color and consistency is obtained. Start applying on the surface with a thumb pressure so that, best adhesion can be achieved. First layer should be off less than 0.5 mm. Rebuild surface with further two coat of 2-3mm each. Apply material with hand pressure to avoid void.

Do not add thinner or water, if thinning is required we recommend adding 5 to 10% of xylene in the matrix.

To make sure that coating has been properly cure pierce with finger nails in to the coating. If nail fails to pierce it indicate that the coating is fully cured and surface is serviceable other wise leave it for further period to cure or heat the surface by flame at temperature of 100 to 150 deg.C for 2 hours for fully cure.

Salient Feature

Microbead is most ideal coating where high wear reduces production and increases cost in component like Classifier, Coal Exhauster, Lamuder and Feed Chute, I.D. fans Casting, Impeller, Slurry Pump, Sand Pump, Cyclone, Mud Pump, Coal and Ash handling parts, Screw Conveyor for cement, Clinker etc. Paper Cement and Mineral processing Industries spares where erosion is a major problem.

Advantages

- Increase equipment Life.
- Reduce Operating Cost.
- Easily convert soft surface to hard surface.
- Save down time.
- Can be cast and molded.
- Out performs any other wears coating.

Physical Properties

Compressive strength	: 900kg/cm2
Flexural strength	: 550kg/cm2
Tensile Shear strength	: 120 kg/cm2
Maximum Operating Temp. C	: 220deg.C
Hardness of Grains	: 9 MOH
Matrix Hardness in Shore	: 95 D.
Working time at 30deg. C	: 30 to 40 minutes.
Cure time at 30deg. C	: 3 to 4 hours.
Mix Ratio	: 2R:1H
Kit size	: 1kg./10kg.
Surface Coverage	: 1 sq ft./1kgs for 5-6 mm thk.

Hofmann Engineering & Marketing Pvt. Ltd.

Wear Resistant Technology Division

307, Shubham Complex, Vastrapur,
Ahmadabad-380054, Gujarat, India.
Tel: +91 79 2685 3867/ 26850175
Fax: +91 79 2685 0175
E mail: info@hofmannindia.com

www.hofmannindia.com

Hofmann WRT
Wear Resistant
Technologies



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