

TECHNICAL DATA SHEET

Description:

OzoProtect SR is a ultra-high performance acrylic based Heat Reflective coating containing low density expanded thermoplastic microspheres with highest SRI rating of 116 designed for use in concrete and metal buildings thus increasing the comfort zone and standard of living conditions for occupants. Ideal for most critical applications like coating over pipelines to prevent condensation/sweating, steam pipelines for thermal insulation, reduction in temperatures in solar heaters, HVAC systems, to prevent evaporation loss in Oil & Storage tanks etc.,

Product Features:

- ✓ Enhances corrosion under insulation (CUI) properties
- ✓ Improves personnel protection by preventing slip and fall accidents caused by moisture
- ✓ Stops unhealthy biological growth

Typical Applications:

- ✓ Sintex tanks / water tanks and pipe lines
- ✓ Air Conditioning Ducts/Chillers
- ✓ Galvanized Tin Sheet
- ✓ Controls Moisture Damage/Slip and Fall Accidents/Personnel Protection
- ✓ Condensation/Sweating corrosion

- ✓ Wood & Concrete
- ✓ Fabric embedded membrane
- ✓ Steam Pipelines
- ✓ Outdoor Container cabins/ pre-fabricated offices
- ✓ Solar heaters
- ✓ Air-Conditioned Building
- ✓ Commercial Buildings
- ✓ Corrosion Under Insulation (CUI)
- ✓ Mobile Homes

- ✓ Green Buildings
- ✓ Refrigerated Cold storage Facilities
- ✓ Temperature Comfort Zones
- ✓ HVAC Systems
- ✓ Oil & gas Storage tanks
- ✓ Prevention of fungus/algae growth
- ✓ Metal Buildings



Typical Properties

| Properties | Unit | Standard | Values |
|--|------------------------------|----------------|--|
| Color | ~ | ASTM D 1544 | Pastel, Tint, Deep, Accent bases and brilliant White |
| Specific Gravity | ~ | ASTM D 792 | 0.9 |
| Viscosity | cps@25oC | ASTM D 1200-10 | 15-20 |
| Mix Ratio | Parts by weight | Manual | Single |
| Ph Value | ~ | ASTM D 1293 | 6-7 |
| Functional Cure | hrs | ASTM D 1640 | 24 hrs |
| Water Absorption | % | ASTM D 570 | 0.1 |
| Solid Content | % | ASTM D 1353 | 50-55 |
| Cured Hardness | shore D | ASTM D 2240 | 80 |
| Bond Strength /Pull of Adhesion Strength | N/mm2 | ASTM D 4541 | 3.7 |
| Solar Absorption | % | ASTM E 1549 | 0.135 |
| Solar Reflectance | % | ASTM E 1549 | 0.915 |
| Thermal Emittance | -- | ASTM C 1371 | 0.921 |
| Solar Reflective Index (SRI) | -- | ASTM E1980 | 116 |
| Thermal Conductivity @20 c | W/ m C | ASTM E 1125-04 | 0.06 |
| Abrasion Resistance | No Cycles | ASTM D1044 | 5000 |
| Accelerated Weathering Test | hrs | ASTM G-155 | 2000 |
| Coverage | Kg/Sq.m/ Thick/ No .of Coats | ~ | 16.8 Sq.m / 10 ltr / 200 mic / 2 coats |
| Application Temperature | ° C | ~ | 0-35 C |

APPLICATION INSTRUCTIONS

Surface Preparation

- ✓ Brush away loose contamination on the substrate to be coated.
- ✓ Bio-wash for killing fungus where necessary
- ✓ Roughen surfaces by wire brush manually.
- ✓ All surfaces must be clean and free from laitance, dust, dirt, oil and grease.
- ✓ Please check Moisture level and p^H level in walls/roof/terrace/ceilings. The moisture level should be below 12% and p^H should be in the range 7-9.

Mixing

- ✓ Turn pails upside down 8 hours prior to application. This will allow coating to become softer and easier to mix.
- ✓ Thoroughly mix the contents of containers using stirrer/mixer. Over-Mixing more than 5 minutes may destroy particles, thereby reducing insulating capabilities.
- ✓ Thinning/Dilution of the material using water is not recommended.
- ✓ Stir the paint occasionally before each use.

Product Application

- ✓ The surface should be moist/water wash before application. However avoid puddling/ponding of water.
- ✓ Apply first coat with brush on the cleaned and washed surface.
- ✓ Apply second coat after a gap of 1-2 Hours.
- ✓ After completion of full coating, it should be allowed to cure for 24 hrs. Drying time may vary due to temperature / humidity and surface condition.
- ✓ Ensure that the coated area does not come in contact with water for at least one hour.
- ✓ Apply with a quality brush, or roller.
- ✓ For best results, Apply when surface and ambient temperatures are above 13°C and below 32°C.
- ✓ After completion of full coating, it should be allowed to cure for 24 hrs. Drying time may vary due to temperature / humidity and surface condition.

Coverage: 16.8 Sq.m / 10 ltr / 200 mic / 2 coats

Application Equipment

Equipment needed for Spray Application

Application Equipments:

Listed below are the general equipment guidelines for the application of this product.

Airless Sprayer:

Pump Ratio: 33:1 or larger

Volume: 1.5 gpm (5.7 lpm) or greater

Hose: 3/8" or larger with no more than 3' of 1/4" whip. 1/2" hose recommended for Length above 50'.

Tip Size: 0.017" (for tight spots)

0.019–0.023" (normal use)

Pressure: Minimum of 3,000 PSI

Small Spray Applications: Please consult Monarch for the Small Application Sprayer. It is excellent for small applications and touch-ups.

Brush: Brushing is only recommended for touch-up of less than 0.5 ft² (0.04 m²). Brushing can inhibit coating performance. Please consult Monarch for detailed brushing instructions.

Limitations

- ✓ Not recommended for immersion conditions.
- ✓ Not to apply the product below 15°C and above 40°C.

LIMITED WARRANTY NOTICE

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Product Order Information

Product Name: OzoProtect SR **Product Code :** 11203 **Product Pack Size :** 10Ltr