

Product Description :

WINTUSHIELD is a water-based, fire retardant, intumescent coating that gives protection to any surface against fire and temperatures in excess of 1000°C up to 2 hours. When exposed to fire or high temperature, WINTUSHIELD coatings swell and create a barrier between the flame and the surface. Thus WINTUSHIELD does not allow the flame /temperature to reach the base surface and protects it against getting damage. Practically it arrests the flame spread and generates zero smoke.

Product features :

- WINTUSHIELD is non-toxic and environmentally safe.
- WINTUSHIELD has no toxic fumes, little or no odor and has passed the stringent requirements for solvents and emissions fumes or gases.
- WINTUSHIELD contains fire to its room of origin. By protecting the walls and ceilings and preventing them from contributing to the fire.
- WINTUSHIELD limits the amount of combustible materials available for flashover. This prevents the fire from spreading or at a minimum level and slows it down, thus giving people time to evacuate safely and firemen to save the property.
- WINTUSHIELD preserves structural integrity.
- WINTUSHIELD can contain the fire to the origin and prevent further propagations; the potential fire damage is dramatically reduced.
- Preventing structural collapse while allowing firefighters the extra safety to fight the fire from the inside.
- Especially in case of fire and the cables are coated with WINTUSHIELD, it maintains the integrity of the circuit and thus does not have impact on its current carrying capacity.
- Can be finished with a wide variety of topcoat types and colors.
- Provides up to 2-hour fire resistance ratings in accordance with BS 476: Parts 20 & 21, and 4-hours in accordance with ANSI/ UL 263, ASTM E119. Tested at NABL lab on wood and metal surfaces.

Technical Data:

Properties	Parameters
Colors	Whitish Gray and Off white.
Specific Gravity	1.250 (± 0.050).
Solid Content	61 ± 3%
VOC	36.5 %
Tack Free Time	30 Minutes at room temperature.
Recommended layer thickness	Min. wet 0.5 to 0.6 mm / Dry 0.4 to 0.5 mm per coat.
Amount used at received layer thickness	1.250 Kg/m ² per 1 mm.
Curing time	Dependent on temperature and relative humidity.
Touch dry	Within one hour at 27°C
Completely cured	After approx. 2 days.
Cleaning equipment	Water

Coverage :

Any consideration for quantity and waste or overspray is the sole responsibility of the end user. Waste factor will depend on the method of application (brush, roll or spray), job site conditions and other factors and should be based on the applicator's experience.

Application Method :

WINTUSHIELD application is easy and cost efficient. A brush, roller or spray can be used to apply WINTUSHIELD. Being a water-based latex, no special equipment is required; minimum time is needed for clean up (just use water). WINTUSHIELD can be tinted any color. WINTUSHIELD can be applied over most existing paint, new paint or wallpaper etc. WINTUSHIELD can be applied on any surface.

Surface Preparation :

Surfaces to be coated must be clean, properly cured, firm, dry and free of dust, dirt, oil, wax, grease, mildew, loose flaking paint, efflorescence or any other contamination or condition that would adversely affect the performance of the coating. Etch or prime (with a latex primer or fast dry oil base primer/sealer) glossy, glazed or dense surfaces. Always prime finish coatings with fast dry primer/sealer. Fill holes and surface irregularities with a suitable patching compound to match surface profile. Spot prime all patched areas with appropriate primer. Metal surfaces must be free of rust and other contaminants present on surface.

Application Conditions, procedure and Precautions :

Do not apply if temperature is below 0°C. All surfaces to which WINTUSHIELD have been applied should be inspected thoroughly to insure correct and excellent surface prior to application to achieve required uniform thickness. Do not thin WINTUSHIELD. Apply at can supplied consistency. Use of airless sprayer is recommended, but WINTUSHIELD may be applied by brush or roller. For brush application, a fully loaded brush should be used. A laying on technique will reduce the brush marking. A short nap roller can be used but this may result in a slight textured finish. Enamel finish coats: Apply one (1) coat of a latex primer or fast dry primer/sealer over WINTUSHIELD before applying a latex enamel finish coat. Wall covering applications: Apply one (1) coat of wall primer over product before applying wall covering. WINTUSHIELD has a flat finish but may be top coated with most paints to achieve the desired texture and finish.

For information on approved compatible primers and finish paints, contact technical team. Apply additional finish coats only after previously applied coats are thoroughly dry. Precautions: Do not apply any materials that have been frozen or have come into contact with contaminants prior to use.

Thickness :

During application, the wet film thickness should be checked using a wet film thickness gauge. To use the gauge, insert the teeth into the wet basecoat. The last tooth to be coated indicates the thickness achieved is important to ensure that the wet film applied is of sufficient thickness to give the required dry film thickness. During the drying process, WINTUSHIELD will shrink due to evaporation.

All surfaces to which WINTUSHIELD have been applied should be inspected thoroughly in order to get required uniform thickness.

Drying :

Drying times are dependent upon a number of factors: Temperature - Air movement - Humidity - Thickness of product - Method of application, If multiple coats of WINTUSHIELD are required, WINTUSHIELD must be thoroughly dry to the touch prior to the application of additional coats. **The final dry film thickness required will vary according to specific assemblies.**

Dilution : Do not thin.

ROLLER: Use a 1 ¼" nap synthetic cover.

BRUSH: Use a nylon/polyester brush.

Packaging: 5,20 Kg HDPE Bucket.

Maintenance :

For the expected performance of the coated film, the surfaces which have been coated with WINTUSHIELD should be protected from abuse and abrasion. Damaged surfaces should be repaired and WINTUSHIELD should be reapplied to the original specified dry film thickness to maintain specific Flame retardency.

Clean Up And Safety :

Wash brushes, rollers, spray guns & pumps and other painting tools in clean water promptly after painting. Clean and remove any dried product immediately after use. Use all products completely or dispose of properly. Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Avoid contact with eyes and prolonged or repeated contact with skin. Wear eye protection and or gloves during application or sanding.

Storage and Precaution :

WINTUSHIELD cannot be exposed to freezing temperatures. It is important to maintain storage temperatures above the freezing point. WINTUSHIELD should be stored at recommended temperatures between 27°C to 40°C. Expected shelf life is one year from the date of purchase (manufacturing). Product must be kept at recommended storage conditions and in original unopened containers.



TECHNICAL SUPPORT

Technical information and guidance regarding **WINSON** range of admixtures, repairs and bonding, water proofing systems, epoxy industrial flooring systems etc, will be available from the technical services department, of WINSON POLYMER TECHNOLOGY. WINSON range of products undergoes high standard quality checks and every reasonable precaution is taken in the manufacture of all products. WINSON continuously strive to ensure the products, recommendations, specifications & information given is reliable, correct and accurate. No specific guarantee can be assured as product performance depends not only on quality but also on many other factors which are not under our control. The customer should make his own trials to determine the compatibility of the product for his own purpose. All products are sold subject to our standard terms and conditions of sale