TDS 78-01
REVIEW: 07/2016
Standard: NBR 9442
ASTM E662

Polidura Firecoat

Varnish: 1000
White: 1001

Polidura Firecoat uses specially selected raw materials, showing excellent resistance to fire, reducing the toxic gases emission generated from the substrate burning. Developed as matt white finish and matt clear varnish, giving beauty, protection and security to internal enviroments.
This product has been certified by IPT / USP according to the NBR 9442: 1986 approved with "A" rating to the white color (Ip ≤ 25) and "C" rating for varnish (76 ≤ Ip ≤ 150) in the test Surface Spread of Flame Index. Also approved in ASTM E662 for determining the density specific optical smoke - Dm ≤ 450, classifying the system as Class II-A for the White color and Class IV-A to Varnish, according IT-10 (Finishing Materials and Coating Control).

TECHNICAL CHARACTERISTICS

TYPE
One component water based acrylic topcoat.

USAGE

Polidura Firecoat can be applied over any surface previously coated with high quality water based and solvent based paints. It can also be applied over masonry and concrete (unpainted), cardboard, PVC (only Firecoat White), acrylic putty and vinyl putty.

TECHNICAL INFORMATIONS		
COLOR	White / Varnish	
FINISH	Matt	
WEIGHT PER LITER	1.300 ± 0.05 g/ml (White) and 1.050 ± 0,05 g/ml (Varnish)	
THEORETICAL SPREADING RATE	38 m^2/coat/gallon 3.6 liters (White) and 55 m^2/coat/gallon 3.6 liters (Varnish)	
COATS	2 to 3 coats	
DRYING TIME AT 25°C	**Touch**	1h
	Recoat Interval	3h
	Final	24h
ENVIROMENTAL CONDITIONS	**Temperature**	Should be between 10 to 40°C
	Relative Humidity	Between 30 to 85%
	Dew Point	Surface temperature is at least 3°C above dew point
	Thinner	Tap Water
APPLICATION	**Brush**	If necessary, dilute up to 10% (vol.) with drinking water.
	Roller	If necessary, dilute up to 10% (vol.) with drinking water. It can be used as sealer for wall, in this case dilute the first coat with 25% (vol.) of drinking water. To the following coats dilute as recommendation.
	Conventional Spray Gun	Dilute up to 20% (vol.) with drinking water. Conventional DeVilbiss JGA 502 FX 704 spray gun or similar are indicated. Spray pressure between 3,0 to 4,0 kgf/cm^2 (40 to 60 psi). Tank pressure between 0,75 to 1,0 kgf/cm^2 (10 to 15 psi).

SURFACE PREPARATION	**Masonry and concrete**	Should not be applied on surface with less than 30 days of curing. After drying time, apply one coat (diluted with 25% (vol.) of water) of Polidura Firecoat or one coat of Pigmented Acrylic Sealer.
	Aged, weaked or calcinated surfaces and surfaces with loose parts	Loose or badly adhered parts should be eliminated by scraping or sanding the surface. Then, a Wall Preparing Primer must be applied.
	PVC	The surface should be clean and dry, without dust and loose parts. Apply Polidura Firecoat White according to the recommendations indicated in this TDS.
	Surfaces with mold or fungi	Wash the entire surface to be coated with a mixture (1:1) of water and sodium hypochlorite solution, let it over the surface by 3 hours. After the suface dries, Polidura Firecoat can be applied naturally.
	Coated Surfaces	The surface must be clean and free of contaminants as oils, fat, grease, dust and must not present peeling's areas. Proceed light sanding (#320) to break the gloss. Clean the surface with water to remove all dust generated by the sanding process. After the suface dries, Polidura Firecoat can be applied naturally.
SHELF LIFE	18 months - container closed and without use.	

IMPORTANT RECOMMENDATIONS

1. The practical spreading rate of the product varies according to the applied thickness, application method and techniques, type and rugosity of the surface and ambient conditions.

2. The weight/l, theoretical spreading rate and drying values were obtained in laboratory at a temperature of 25ºC. At an altered temperature, the results might be different from the specified ones.

3. Mix the product inside the container before application. The product must be applied in a uniform way, avoiding isolated retouch after the coat is dried.

4. The maintenance (re-application) of the painting is only indicated for cases in which the film suffered mechanical damage or leaks, otherwise, the flameproof protection should be maintained indefinitely if the coating film remain in good condition

5. The coated surface can be washed only 30 days after the coating process. Wash it with water, softly rubbing with a soft cloth. Do not use organic solvents to clean the coated surface.

6. This product has all its characteristics ensured untill the shelf life date when properly stored, manipulated and applied over a treated surface according to this TDS recommendations.

SAFETY PRECAUTIONS

1. Improper use and handling of this product can be hazardous to health. Do not use it without first taking all appropriate measures to prevent property damage and injuries.

2. Storage: keep the product in sheltered, well-ventilated areas, away from the reach of childrens and animals. Keep it away from flames, sparks, drinks and food.

3. Flammable: not flammable product.

4. Inhalation: Avoid breathing vapors, keeping proper ventilation during application and drying.

5. Handling: wear proper protective clothing and masks, goggles, etc. Do not eat or drink nor allow children and animals to be near the application area. After the application, clean your hands with water and soap.

HEALTH HAZARDS

1. Skin contact: wash affected area thoroughly with neutral soap.

2. Leakage: Isolate the area, and stop leakage with sand, sawdust or soil, and transfer liquid and solid to separated recipients for disposal.

3. Fire: protect non-affected recipients with water spray. Extinguish fire using water, carbon dioxide, foam or dry chemical.

4. Eyes contact: flush eyes with large amounts of clean water for at least 10 minutes, and get medical attention immediately.

IMPORTANT: For further information consult the product MSDS (Material Safety Data Sheet).