



Rethane BST 870 uses specially selected raw materials, showing optimal drying and excellent resistance to weathering. It is a primer / topcoat that provides excellent adhesion on non ferrous metal substrates, suitable for substrates subjected to galvanizing process hot dip (hot dip galvanized) and copper, see surface preparation. It can be formulated with organic pigment, free of heavy metals

TECHNICAL CHARACTERISTICS

TYPE

Aliphatic acrylic polyurethane primer / topcoat, two pack system.

USAGE

Suitable for use on metal structures, equipment and accessories galvanized, aluminum, copper, stainless steel, tanks and pipes (outer covering), ferrous substrates (used over epoxy primer).

TECHNICAL INFORMATIONS

COLOR	White, Orange and Red	Other colors, please consult.	
FINISH	Semiglossy		
VOLUME SOLIDS	40% ± 2	According to ISO 3233	
WEIGHT PER LITER	1,160 ± 0,05 g/ml	According to ASTM D 1475	
FLASH POINT	23°C		
MIXING RATIO		Weight	Volume
	Comp. A	100,0	7,0
	Comp. B	11,3	1,0
POT LIFE (25°C)	4 h		
INDUCTION TIME	15 to 30 min		
THEORETICAL SPREADING RATE	13,3 m ² /l - 30 µm		
	10,2 m ² /l - 40 µm		
WET THICKNESS	75 µm to 100 µm		
DRY THICKNESS	30 µm to 40 µm		
DRYING TIME, for 30 µm		25°C	

		Minimum	Maximum
	Touch		30 min
	Handle		2 h
	Recoat	6 h	

ENVIRONMENTAL CONDITIONS	Temperature	Should be between 0 to 40°C
	Relative Humidity	Between 30 to 85%
	Dew Point	Surface temperature is at least 3°C above dew point
	Thinner	440.0000 / 440.0005 (roller and brush)

APPLICATION	Brush	This method must be used only for retouch and backing of welding cords and corners.
	Roller	Dilute up to 5% (vol.) with 440.0005 thinner. Must be used solvent resistant roller (sheep wool). The wool must be cutted (small size) to avoid blistering during the application.
	Conventional Spray Gun	Dilute up to 10% (vol.) with 440.0000 thinner. Conventional DeVilbiss JGA 502 FX 704 spray gun or similar. Spray pressure between 2,5 to 3,0 kgf/cm ² (35 to 50 psi). Tank pressure between 0,5 to 1,5 kgf/cm ² (7 to 21 psi).
	AirLess Spray Gun	Dilute up to 10% (vol.) with 440.0000 thinner. Use nozzles between 21 to 27 and pump pressure between 140 to 175 kgf/cm ² (2000 to 2500 psi).



SURFACE PREPARATION	Carbon steel	The surface must be dry , free from salt, oil, grease, dust and other contaminants and coated with a suitable primer. Wash it off with fresh water, detergents and solvents. All substrates subjected to galvanizing process hot dip (galvanized fire) or copper should have the adherence tested previously or carry light sanding or light blast (Brush off). Then spend an air jet to remove dust or make cleaning solvent .
	Coated Surfaces	The surface must be clean and free of contaminants as oils, fat, grease and dust. Must not present peeling's areas. Proceed light sanding (220) to break the gloss.
	Recommended Primers	Not applicable
	Recommended TopCoat	Not applicable

SHELF LIFE	12 months
UN NUMBER	1263
HAZARD NUMBER	33

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, viscosity and drying values were obtained in laboratory at a temperature of 25°C. At an altered temperature, the results might be different from the specified ones.
 3. Component B consists of isocyanate , which is reactive with moisture in the air. Therefore , every use of the product , close the container as soon as possible so that does not lose its efficiency.
 4. **IMPORTANT:** When the throttle drying used, should be added in the additive component A and mix. After additives, mixing the components A and B in a mechanical shaker for 5 minutes. Products for immersion is NOT recommended additives. **WARNING:** The pot life is reduced with additives.
 5. If the recoat interval is exceeded, carry light sanding. Fo temperatures above the established, the recoat interval is reduced.
 6. The pot life decreases with increasing temperature.
 7. The acronym IMP indicates organic pigmentation, may have restrictions in some colors.
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SAFETY PRECAUTIONS

1. Improper use and handling of this product can be hazardous to health and cause fire or explosion. 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. Maximum temperature: 40°C. Must not be directly exposed to the sun.
3. Flammable: flammable product, which must be kept distant from ignition sources, and do not smoke nearby.
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.

HEALTH HAZARDS

1. Skin contact: wash affected area thoroughly with neutral soap.
2. Clothing contact: remove clothing and wash it.
3. Leakage: Isolate the area, and do not smoke nearby. If large quantity leaked in confined area, wear protective masks. Do not inhale vapors. Stop leakage with sand, sawdust or soil, and transfer liquid and solid to separated recipients for disposal.
4. Fire: protect non-affected recipients with water spray. Extinguish fire using carbon dioxide, foam or dry chemical.
5. 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).
