

TDS

REVIEW: 01/2017

Standards:

USGBC LEED, EQ Credit 4

SSPC-Paint 39, Type 2

RenFlex Aliphatic Clearcoat

Component A:

Component B:



RenFlex Aliphatic Clearcoat is an aliphatic polyaspartic polyurea system. It can be applied directly to most substrates and can be used as a top coat for existing epoxy, polyurethane or polyurea. This coating is extremely stable to UV rays having excellent weathering performance. RenFlex Aliphatic Clearcoat can be applied at temperatures up to -6 °C. When fully cured will produce a highly abrasion resistant coating with high gloss and smooth finish. Product with fast curing, high solids and low odor.

TECHNICAL CHARACTERISTICS**TYPE**

RenFlex Aliphatic Clearcoat is an aliphatic polyaspartic polyurea coating.

USAGE

RenFlex Aliphatic Clearcoat adheres well to most substrates, including concrete, steel and plastic. The high tensile strength of the coating is able to withstand the movement of industrial equipment, steel cars and forklifts. Due to excellent chemical resistance serves many applications. Can be used in hangars, decorative applications on floors, car dealer floors and anywhere where it needs high color stability.

TECHNICAL INFORMATION

COLOR	According to standard catalog	
FINISH	80 UB	
MIXING RATIO		Volume
	Comp. A	1,0
	Comp. B	2,0
SHORE D HARDNESS	50 - 60	According ASTM D2240
TENSILE STRENGTH, psi	1500 - 2500	According ASTM D638
TENSILE ELONGATION, %	95 - 115%	According ASTM D638
ELASTIC MODULUS (kpsi)	50 - 75	According ASTM D638
TEAR STRENGTH, (lb/in)	365 - 500	According ASTM D624
TABER ABRASION, mg wt loss	15-20	According ASTM D4060
POT-LIFE	20 - 25 min	According ASTM D1640
TACK FREE	1,5 - 2 Hours	According ASTM D1640
DRY-TO-RECOAT	2 Hours	According ASTM D1640

MIXING

Mix part 'A' with part 'B' until thoroughly mixed, use paint paddle or low speed drill mixer; however, do not entrain air or bubbles into the mixture. 5 to 15% acetone by volume may be added to the mixed 'A' & 'B' to obtain the stated pot life. If color is desired, add color pigment to the diluted 'A' & 'B' mixture until color is homogeneous.

SURFACE PREPARATION

RenFlex Aliphatic ClearCoat adheres well to clean, dry and sound substrates including cured concrete, steel, wood and plastic. All surfaces should be free of loose particles, contaminant, voids and spalls. It is recommended that the product be applied in a multi-directional (north-south, east-west) motion to ensure proper coating thickness. Chloride levels should be checked prior to application. Renflex Aliphatic ClearCoat may be applied up to a 10 mil thickness per application. Second coat shall be applied within 4 hours of initial coat. The working time of this product is 10 to 12 minutes. Please review Material Processing & Handling Information for further details. Not to be used for constant immersion environments.

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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. This product should not be used in presence of extreme pHs (very high or low).
 4. Pot life is shortened by higher temperature and by the increase of catalyzed volume.
 5. If the recoating interval is exceeded, proceed with light sanding. For temperatures above that established, the overcoating interval will be reduced.
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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: 18 - 35°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.
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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).
