

TDS

REVIEW: 01/2017

Standards:

USGBC LEED, EQ Credit 4

ANSI/GRHC/SPRI VR-1 (2011) compliant

AWWA D102 ICS#4

NSF/ANSI 61.5

RenFlex Aqua 405

Component A:

Component B:



RenFlex Aqua 405 is a flexible, 100% solids, two component, pure aromatic polyurea elastomeric coating material for quick drying and preparation. RenFlex Aqua 405 is approved according to the NSF / ANSI 61.5 standard for use in potable water. Its fast gel time makes it suitable for applications up to - 40 °C without special conditioning of the component resins and isocyanates. RenFlex Aqua 405 produces an extremely resistant film in all thicknesses, as well as being relatively insensitive to humidity and temperature, allowing application in more problematic environmental conditions. Excellent thermal stability, low permeation rate, remains flexible at low temperatures and return to service in 60 minutes.

TECHNICAL CHARACTERISTICS**TYPE**

RenFlex Aqua 405 is an aromatic pure polyurea elastomeric coating material, bicomponent.

USAGE

Suitable for industrial plants, contact with drinking water, water treatment and food processing industries. RenFlex Aqua 405 is a superior coating material designed specifically for industrial applications that receive constant or intermittent attack of contained materials, underground hydrostatic pressure, corrosive substances and abrasive action. RenFlex Aqua 405 is flexible, accommodating to substrate movement, yet strong enough to remain intact in all conditions, except in large structural shifts. With or without reinforcements, RenFlex Aqua 405 can be used in transition areas with confidence. RenFlex Aqua 405 can be used in indoor or outdoor applications. The RenFlex Aqua 20 primer and the RenFlex Aqua 201 aliphatic coating are complementary products within our drinking water coating package.

TECHNICAL INFORMATIONS

COLOR	According to standard catalog	
VOLUME SOLIDS	100%	According ISO 3233
VOC	No VOC	
MIXING RATIO	Volume	
	Comp. A	1,0
	Comp. B	1,0
COVERAGE RATES (Gallon US)	Mils	10 15 50 6080 80 100 125
	Sq. Ft.	160 107 32 27 20 16 13
SHORE D HARDNESS	40	According ASTM D2240
TENSILE ELOGATION	300% - 450%	According ASTM D638
TENSILE STRENGTH, psi	2145 psi	According ASTM D638
TENSILE ELOGATION (%)	>400%	According ASTM D638
MODULUS OF ELASTICITY (psi) - 100%	960 psi	According ASTM D638
- 300%	1450 psi	According ASTM D638
TEAR STRENGTH	405 psi	According ASTM D624
MOISTURE VAPOR TRANSMISSION	0,025	According ASTM E-96
TABER ABRASION, mg wt loss	8 - 18 mg	According ASTM D4060
GEL TIME	8 - 12 s	According ASTM D1640
TACK FREE	30 - 45 s	According ASTM D1640

APPLICATION

Must be spray applied using approved equipment. Use 1:1 ratio pump with appropriate material heaters, as required for individual application.

SHELF LIFE

12 months.

UN NUMBER

1263

HAZARD NUMBER

33

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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
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. Low temperatures increase the curing time. At temperatures below 10°C, please contact our technical department.
4. Pot life is shortened by higher temperature and by the increase of catalyzed volume.
5. Excess dry thickness favors the occurrence of porosity in the welding.

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).
