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TUFF STUFF PRODUCT DATA SHEET

Date Revised: November 2006

GENERIC TYPE

Elastomeric polyurethane. 100% volume solids
(no Volatile Organic Compounds, no solvents)

GENERAL PROPERTIES

TUFF STUFF is a two (2) component elastomeric polyurethane lining system. The two components are separately and simultaneously pumped from their respective containers through feed hoses into a two-component spray gun where they are mixed at low pressure by a static mixer. The mixed components are then atomised (air injection) at the end of the static mixer to facilitate an even spray of the liquid material. At the point of leaving the spray gun, the two-component mix has started to react and will become a solid in 30-50 seconds. The sprayed solid coating becomes tack-free in 30-60 seconds (depending on thickness of coating, surface temperatures, ambient temperature and relative humidity).

RECOMMENDED USES

TUFF STUFF is predominately used as a spray on liner for the insides of utilities, trucks and trailers. It is used for coating metal, wood, concrete, fiberglass and other surfaces. It is an ideal coating for the transportation, construction, mining and marine industries. TUFF STUFF is suitable for applications where abrasion, impact or corrosion protection is required and is also suitable for industrial flooring and waterproofing applications and has Potable water certification.

TUFF STUFF can only be applied by Rhino Linings approved applicators.

STORAGE AND HANDLING

TUFF STUFF is hygroscopic and should be stored in tightly sealed containers away from moisture and direct sunlight. Storage at temperatures between 20 – 30 degrees C will maximize product life. Always use a desiccant dryer on both components when spraying.

Component Temperature: 20°C - 30°C
Substrate Temp: 15°C - 43° C

TYPICAL PHYSICAL PROPERTIES

(ASTM TEST METHODS @ 73°F)

Hardness, Shore A	D-2240	85 (+/- 3)
Specific Gravity	D-792	1.08 -1.10 g/cc
Tensile Strength	D-412	1700-1900 psi
% Elongation	D-412	325-375%
Secant Modulus		
@200% elongation	D-412	700-800 psi
@400% elongation	D-412	1200-1300 psi
Tear Resistance Die C	D624	240 -250 psi
Taber Abrasion Resistance		
(weight loss using 1000gm weight		
@ 1000 cycles) CS-17 Wheel	D-1044	10 - 15mg
Water Absorption (24 hours)	D-570	< 1.6%
Ross Flex (% crack growth		
per 50,000 cycles)	FIA-308	=0
Flexural Modulus	D-790	5600-6400psi
Dielectric Strength	D149	300volts/mil
Volume Resistancy	D257	6x10(12) ohm-ins
Dielectric constant	D150	5.4 MgH
Dissipation Factor	D150	0.058 MgH
Viscosity (A Side) cps	@ 25°C (77°F):	225
Viscosity (B Side) cps	@ 25°C (77°F):	750

Always ensure the Part B side is thoroughly mixed just prior to use.

RATIO: volume = 1:1.88

DRY FILM THICKNESS

Coating Thickness: 3mm - unlimited

REACTIVITY

Tested in cups, 161g comb @ 24°C - 27°C

Initiation	15 - 20 seconds
Gel	20 - 30 seconds
Tack-Free/Solid	< 60 seconds
95-99% cure	24 hours

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