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TUFF-FLEX™

Super Flexible Waterproofing Decorative Wall Coating

DESCRIPTION

TUFF-FLEX is a water-based waterproofing wall coating formulated with internally crosslinked acrylic copolymers. The product provides superior weather resistance, with no chalking, leaching, or other surface defects. The product also provides colour stability and has very high resistance to water ponding.

USES

TUFF-FLEX is a high performance flexible waterproofing wall coating, designed for protection of new and restoration of cracked and deteriorated concrete, masonry, and stucco. TUFF-FLEX bridges over and seals substrate cracks due to its high elongation at ambient and very low temperatures. TUFF-FLEX provides excellent protection against acid rain (product does not contain carbonate fillers) and airborne pollutants, making it an ideal protective coating for industrial applications. TUFF-FLEX permanently waterproofs, while remaining fully breathable, allowing water vapour to escape from the substrate.

FEATURES/BENEFITS

- Totally waterproofs
- Provides excellent elongation and recovery at low temperatures
- Provides continuous elongation (built into the molecular chain)
- Available in smooth and textured finishes
- Features long term adhesion and durability
- Vapor permeable
- Highly resistant to carbon dioxide diffusion
- Does not contain plasticizers
- Exceptionally UV light resistant
- Dirt resistant - stays clean
- Excellent "hide"
- Excellent colour stability and unlimited colour selection
- Easy application = spray or roll
- Low sensitivity to substrate moisture content
- VOC compliant

PACKAGING

20 L (5.3 Gal.) Pail

COLOUR

A wide variety of colours are available. The colour suitability must be confirmed before an order can be accepted. Every effort is made to fill each order using the same batch number, but different batch numbers of the same colour may be occasionally used to complete an order. It is the sole responsibility of the applicator to make certain that only one batch number is used on any one side of the building. Different batch numbers cannot be used on the same wall unless they are mixed together to ensure total colour uniformity.

COVERAGE

3.5 - 4.5 m²/L @ 0.22 - 0.29 mm (143 - 183 ft.²/USG @ 9-11 mils) thickness per one coat

The actual coverage depends on surface roughness, application technique, and thickness applied. Applicator must carry out a sample application to determine actual coverage for the given substrate and application thickness.

SHELF LIFE

when stored on pallets in a dry, cool area, free from moisture and direct sunlight, has a shelf life of 12 months. Protect product from freezing.

Continued over ...

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TECHNICAL DATA

Viscosity (Ford Cup)	105 ± 3 KU
Specific Gravity	1.38 g/cm ³
Elongation @ Break (ASTM D2370)	
@ 23° C	400%
@ -21° C	100%
Adhesion (Pull-Off)	
Before Freeze/Thaw	>2 MPa
After Freeze/Thaw	>1.5 MPa
Water Absorption Decrease	>30%
Freeze Thaw - 3 Cycles	No Changes
Water Vapour Diffusion Resistance Engelfried-Klopfer	$S_d < 4 \text{ m}$
Permeance (ASTM E96) @ 7 - 9 Wet Mils	1280 ng/P.s.m (22.3 perms)
CO ² Diffusion Resistance Engelfried-Klopfer	$R_b > 50 \text{ m}$
Coat Thickness (Incl. Primer)	Approx. 0.3 mm
Water Penetration Resistance	passes 160 km/hr wind-driven rain test over concrete block
Weatherability	Unaffected by wetting and drying, freeze/ thaw or UV exposure

Application Method ... Short, medium, or long nap roller can be used to apply TUFF-FLEX. The type of the roller and the application technique will determine the appearance. Keep a wet edge. TUFF-FLEX can also be spray applied using airless paint equipment. Apply TUFF-FLEX in two coats. Apply second coat as soon as the first coat is dry to touch, or within 48 hours. In some cases, due to porosity, additional coats may be required to achieve the desired result.

Curing ... TUFF-FLEX will cure sufficiently by air drying in 12 - 24 hours, depending on temperature and relative humidity.

Cleanup ... Clean tools and equipment immediately after use with water. For dry material, use MEK or Xylol.

LIMITATIONS/PRECAUTIONS

Do not apply when rain is imminent. Surface and ambient temperature must not be below 5° C or above 32° C during and 24 hours after the application. Fresh (green) concrete or cement plaster must be cured for at least ten (10) days prior to the application of TUFF-FLEX.

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APPLICATION

Surface Preparation ... Remove all dirt, efflorescence, loose particles, paint, cement scaling, and other foreign matter which can interfere with the adhesion of the coating. Use pressure water (at least 13.8 - 20.7 MPa) or sand blast as required.

Crack Treatment ... TUFF-FLEX can be applied directly over hairline cracks. Cracks >0.25 mm (10 mils) have to be prefilled by brushing TUFF-FLEX into the crack and REINFORCING FABRIC LW may have to be applied over the crack, before the overall application. Cracks larger than 0.8 mm (1/32") must be opened and pre-filled with a flexible caulking.

Mixing ... Do not add water to TUFF-FLEX. Mix thoroughly before application.



LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer

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