

TYPE TC-55 Sealer

1. PRODUCT NAME

A/D TYPE TC-55 Sealer

2. PRODUCT DESCRIPTION

Basic Use: A/D Type TC-55 Sealer may be used as an adhesive and/or sealer with A/D's cementitious and fibrous sprayed fire resistive (fireproofing) and insulation products. It may be used as lockdown adhesive for asbestos removal/fireproofing respray projects. A/D Type TC-55 improves adhesive bond of fireproofing/insulation products to steel, concrete and other substrates. When applied as a topcoat/sealer, it improves most physical characteristics, reduces air erosion losses and may be used to colour the fireproofing or insulation surface.

Composition and Materials: A/D Type TC-55 is a water based vinyl acrylic copolymer emulsion of fine particle size. Films retain high degree of flexibility and elongation. Normally clear and colourless, it is also available in a limited range of colours.

Limitations: Use and apply in accordance with manufacture's instructions and published fire-rated designs (A/D Type TC-55 is the optional adhesive/sealer referenced in ULC and ULI Designs for A/D Type FP sprayed fireproofing). Colour intensity and film build will vary depending on dilution and application rates and most importantly, texture, density and finish of surface being coated. A/D Fire protection systems cannot be held responsible for colour variations on site.

Packaging: A/D Type TC-55 is packaged in 19 L (5 gal) and 170 L (45 gal) pails or drums.

Colour Availability: Clear, white, black and blue (also see "limitations" section above).

3. TECHNICAL DATA

Physical Properties: Refer to Table 1.

Surface Burning Characteristics

	On Cement Board*	On Type FP**
Flame Spread	5	15
Smoke Development	0	0
	*CAN/ULC-S102	**ASTM - E84

4. INSTALLATION

Surface Preparation: Surfaces to receive A/D Type TC-55 must be clean and free of dirt, oil, grease or other substances, which may impair adhesion.

Method: A/D Type TC-55 is applied only by authorized applicators. Protect sprinkler heads and all surfaces not intended to be coated. Dilute as required with clean potable water. Apply with spray, brush or roller. Clean up with water and remove masking.

Application Rates and Coverage: The following are suggestions only. Film build and colour intensity may vary significantly depending on dilution and application rate, and texture, density and finish of substrate being coated. Where coloured finish over fibrous and cementitious materials is desired, we recommend extra attention be given to preparation and application of the fibrous or cementitious surfaces.

As an adhesive

- approx. 10.2 - 12.2 m²/L (500 - 600 ft²/gal) (diluted one part water to one part adhesive)

As a sealer

- Light coat: approx. 10.2 - 18 m²/L (500 - 882 ft²/gal)

- Medium coat: approx. 6.1 - 10.2 m²/L (300 - 500 ft²/gal)

- Heavy coat: approx. 2 - 6.1 m²/L (100 to 300 ft²/gal) (dilute one part water to three parts adhesive) (Sealer with tint, 0.8 (fiber) to 2 m²/L (cementitious) (40 to 100 ft²/gallon))

5. AVAILABILITY AND COST

Availability: A/D sales offices and technical representatives are located throughout North America.

PHYSICAL PROPERTIES Table 1

Property	Result
Solids Content	49% ± 0.5 (clear)
	8 g/L (0.1 lb/gal.) clear
VOC	9 g/L (0.1 lb/gal.) white
	8 g/L (0.1 lb/gal.) black
Viscosity	25°C, Brookfield LVF 3/12
	2200 - 3400 (clear),
	1500 - 3400 (colours)
pH @ 25°C	4.0 - 5.0
Particle Size	0.2 - 0.5 microns
Specific Gravity	1.09 (clear), 1.04 (black)
Weight per US gal @ 25°C	9.15 lbs
Freeze/Thaw Stability	Very Good
Film Hardness	Soft and flexible
Film Clarity	Very Good
Film Gloss	Very Good
Free Monomer	0.5% maximum

6. MAINTENANCE:

No maintenance should be required. Damage caused by other trades should be patched at the expense of trade causing damage.

7. TECHNICAL SERVICES

Contact nearest A/D representative or office.

8. Health and Safety: To safely use this product, read and abide by the material safety data sheet (MSDS).



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