TC-55 SEALER

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	TC-55 Sealer is a water based vinyl acrylic copolymer emulsion of fine particle size. Films retain high degree of flexibility and elongation.
Description	TC-55 Sealer may be used as an adhesive and/or sealer with cementitious sprayed fire resistive materials and insulation products. TC-55 Sealer improves adhesive bond of fireproofing and insulation products to steel, concrete and other substrates. When applied as a sealer, it improves most physical characteristics, reduces air erosion losses, and provides a suitable base for topcoating, if desired.
Features	• Easy spray application • Excellent bonding properties • Single package • Mixed with clean potable water at job site
Color	Clear
Wet Film Thickness	4 mils (100 microns)
Solids Content	By Volume 49%
Theoretical Coverage Rates	Approximately 400-500 ft²/gal (9.8-10.2 m²/L), when mixed one part water to one part adhesive. Rate will vary with dilution ratio.
VOC Values	**As Supplied** : 0.00 lbs/gal (0 g/l) clear
Limitations	Use and apply in accordance with manufacturer's instructions and published fire-rated designs. Film build will vary depending on dilution and application rates and most importantly, texture, density and finish of surface being coated.

SUBSTRATES & SURFACE PREPARATION

General	Before applying TC-55 Sealer, the surface must be free of all oil, grease, condensation, or other contamination. Do not use if concrete has been treated with curing solutions. Test patches may be required to ensure compatibility.

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	System	Results
ASTM E84 Surface Burning	TC-55	Class A
Density	TC-55	68 pcf
FIlm Clarity	TC-55	Very Good
Film Gloss	TC-55	Very Good
Film Hardness	TC-55	Soft and flexible
Free Monomer	TC-55	0.5% maximum
Freeze/Thaw Stability	TC-55	Very Good
Particle Size	TC-55	0.2-0.5 microns
pH @77°F (25°C)	TC-55	4.0-5.0

*All values derived under controlled laboratory conditions.

MIXING & THINNING

Mixing	One part TC-55 Sealer for one part water for use as an adhesive. Up to three parts TC-55 Sealer to one part water for use as a sealer.

APPLICATION PROCEDURES

Application Rates	Film build may vary significantly depending on dilution of product, application rate, texture (finish) of substrate, and density of substrate being coated. Where colored topcoats over fibrous and cementitious materials is desired, we recommend extra attention be given to preparation and application of the fibrous or cementitious surfaces. If used as an adhesive, TC-55 Sealer should be tacky to wet when cementitious fireproofing is applied. TC-55 Sealer is typically ready to be over-coated with cementitious fireproofing products in 5 - 10 minutes at 70°F (21°C).

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	40°F (4°C)	40°F (4°C)	40°F (4°C)	0%
Maximum	100°F (38°C)	125°F (52°C)	110°F (43°C)	95%

Air and substrate temperatures shall be maintained 24 hours before, during and 24 hours after application. If used as an adhesive, TC-55 Sealer should be tacky to wet when cementitious fireproofing is applied. TC-55 adhesive and cementitious fireproofing are susceptible to water and must be protected accordingly. Contact Carboline Fireproofing Technical Service for recommendations.

CLEANUP & SAFETY

Cleanup	Pump, mixer and hose should be cleaned with clean, potable water at least once every 8 hours at 70°F (21°C) and more often at higher temperatures. Wet overspray must be cleaned up with clean, fresh water. Cured overspray may be difficult to remove.
Safety	Follow all safety precautions on the A/D TC-55 Sealer Material Safety Data Sheet. It is recommended that personal protective equipment be worn, including spray suits, gloves, eye protection and respirators when applying A/D TC-55 Sealer.

PACKAGING, HANDLING & STORAGE

Packaging	5 gallon pail or 45 gallon drum
Shelf Life	12 months *Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Storage	Store indoors in a dry environment between 33-100°F (1-38°C). Protect from freezing.
Shipping Weight (Approximate)	9.5 lbs. per gallon

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