

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. Normally clear and colorless, it is also available in a limited range of colors.
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 topcoat/sealer, it improves most physical characteristics, reduces air erosion losses and may be used to color the fireproofing or insulation surface.
Features	<ul style="list-style-type: none"> • 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 ft ² /gal (9.8-10.2 m ² /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 As Supplied : 0.17 lbs/gal (20 g/l) colored
Limitations	Use and apply in accordance with manufacturer's instructions and published fire-rated designs. Color intensity and film build will vary depending on dilution and application rates and most importantly, texture, density and finish of surface being coated. Manufacturer cannot be held responsible for color variations on site.

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.
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PERFORMANCE DATA

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.

TC-55 SEALER

PRODUCT DATA SHEET



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 and color intensity may vary significantly depending on dilution of product, application rate, texture (finish) of substrate, and density of substrate being coated. Where colored finish 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



TC-55 SEALER

PRODUCT DATA SHEET

WARRANTY

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Carboline Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance, injuries or damages resulting from use. Carbolines sole obligation, if any, is to replace or refund the purchase price of the Carboline product(s) proven to be defective, at Carbolines option. Carboline shall not be liable for any loss or damage. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated.