



Product Guide

# CONSTRUCTION CHEMICALS



# Building Stronger:

## Sustainable Solutions for Modern Construction

SMC Global excels in construction chemicals, focusing on spray foam insulation for open- and closed-cell systems. Offerings include flame retardants, catalysts to optimize foam properties, and surfactants for better emulsification and stability. These solutions ensure compliance and performance for the construction industry.

Our portfolio also features various Amine Catalysts for enhanced stability in closed-cell foams, and fast-set and open-cell applications. With global manufacturing in the U.S., Asia, and Europe, SMC Global supports the construction sector's demand for sustainable, high-performance materials, driving innovation in building durability and safety.



# Flame Retardants

Product	Application
TCPP – Tris(1-Chloro-2-Propyl) Phosphate	Primary Halogenated Flame Retardant Used in Both Open-Cell and Closed-Cell Polyurethane Spray Foam; Improves Fire Resistance and Meets Code Compliance Without Compromising Foam Properties
TEP – Triethyl Phosphate	Halogen-Free Flame Retardant for Closed-Cell Formulations; Offers Strong Thermal Stability and Enhances Char Formation for Environmental or Performance-Driven Flame Retardancy Needs

# Surfactants

NP9 – Nonylphenol Ethoxylate (Avg. 9 EO Units)	Non-Ionic Surfactant Used in Polyol Blends to Improve Emulsification, Foam Stability, and Cell Structure; Assists with Uniform Mixing of Additives and Water in Water-Blown Systems
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# Catalysts

Dibutyl Dilaurate	Amine Catalyst Balancing Blowing (CO <sub>2</sub> /Foaming) and Gelling (Crosslinking) Reactions; Controls Foam Rise Profile, Cure Time, and Cell Structure
DMI 70 – N,N-Dimorpholinodiethyl Ether	Balanced Blowing/Gelling Amine Catalyst for Fine-Tuning Reactivity in Open- and Closed-Cell Systems; Useful in Warm-Weather Formulations and for Controlling Cream and Tack-Free Times
Amine Catalyst	Strong Gelling Catalyst to Increase Polymerization Speed and Crosslink Density in Closed-Cell Spray Foam; Reduces Post-Blow Shrinkage and Improves Dimensional Stability
Amine Catalyst	Balanced Metal-Based Catalyst Providing Enhanced Dimensional Stability and Compressive Strength in High-Performance Closed-Cell Applications
Amine Catalyst	Supports Faster Reaction Profiles with Controlled Rise and Cure Times; Useful in Winter-Grade or Fast-Set Spray Foam Systems
Amine Catalyst	Provides Latency During Spray for Better Processing and Control in Open-Cell Foam Applications; Reduces Risk of Over-Expansion and Enhances Surface Finish

## Concrete & Cement Additives

MIPA – Monoisopropanolamine	Concrete and Cement Additives
TIPA – Triisopropanolamine	Concrete and Cement Additives
DIPA – Diisopropanolamine	Concrete and Cement Additives



## GLOBAL PRESENCE



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