

Our solutions for your floors

Methacrylate resins for fast installations
and especially high traffic areas



DEGADUR®

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DEGADUR®: The faster way to a new floor






When selecting and specifying flooring, whether for new buildings or renovations, planners and builders must consider the time invested in installation as well as functionality and aesthetic appeal.

Flooring systems with DEGADUR® synthetic resins offer a highly efficient solution. Robust and resistant to mechanical and thermal loads, as well as chemical attack, they are also quickly installed. Freshly laid flooring can be walked on and used normally in just a few hours, so that prolonged work stoppages and shutdowns are avoided. DEGADUR® systems cure rapidly and are easily processed even at temperatures down to -30°C (-22°F).

DEGADUR® resins: for the most stringent requirements

DEGADUR® resins are solvent-free, cold-curing methacrylate systems for producing high-quality flooring. Polymerization of the different system components occurs with the addition of a curing agent. DEGADUR® based flooring systems are generally applied on concrete, screed, steel, wood or tiles. Successfully applied coats result in a seamless, highly functional floor. In industrial and commercial flooring, DEGADUR® resins protect mineral surfaces from weathering effects, mechanical loads and chemical attack. As tested system components they meet the strictest hygiene requirements and improve workplace safety by their skid resistance.

Advantages

	Fast curing <ul style="list-style-type: none"> Only brief stoppages or shutdowns required Ready for use after only a few hours 	Coatings containing DEGADUR® polymerize very fast and can be subjected to chemicals and mechanical load about two hours after application.
	Low-temperature curing <ul style="list-style-type: none"> Can be applied at very low temperatures Application in cold storage areas 	Coating systems containing DEGADUR® cure completely even at temperatures as low as -30°C (-22°F).
	Interlayer adhesion <ul style="list-style-type: none"> DEGADUR® systems can be applied to one another and allow a modular approach to floor design which can be tailored to project requirements Damaged surfaces are easily re-coated 	Due to an excellent mutual compatibility, the individual layers of DEGADUR® resin systems bind particularly well to one another.
	Expertise and innovative strength <ul style="list-style-type: none"> Resin systems matched to project specifications Continued development of eco-friendly resin systems 	Evonik itself produces more than 95% of the components of DEGADUR® resins and has comprehensive expertise in the development and production of monomers, polymers, additives and coatings.
	Weathering and aging resistance <ul style="list-style-type: none"> Long lifetime and service life Application is also possible in open areas and on exterior surfaces 	Floor and decking systems obtained after curing of DEGADUR® based resins are distinguished by extraordinarily high light- and UV-resistance and long service life.



Selected solutions using DEGADUR® systems

Cleanliness and purity in the food processing industry

Floors in the food processing industry must comply with the provisions of the German Food Law and be approved for the proposed use. DEGADUR® systems have been certified by ISEGA (Forschungs- und Untersuchungsgesellschaft mbH, Aschaffenburg, Germany) as physiologically inert. Wherever food is produced, the main concern is cleanliness. However, joints in floors are hard to clean and susceptible to bacteria and molds, particularly in areas that are difficult to access.

DEGADUR® 418 and 527: Hygienic and easily cleaned

DEGADUR®-based systems are useful here. Being seamless and impermeable to liquids, they are easy to clean and offer limited foothold to molds. Flooring systems with DEGADUR® are ideal in the food industry, thanks to their high resistance to commonly used cleaning agents. This applies under the most challenging conditions: Even acids and alkalis cannot harm the flooring.

APPLICATION AREAS

- Beverage filling, breweries, and wine cellars
- Fruit juice plants
- Milk and cheese industries
- Meat, poultry, and fish processing
- Deep-freeze storage
- Fish processing and canning plants





Heat- and grease-resistant in the catering and restaurant industry

DEGADUR® 418 and DEGADUR® 526: Anti-skid and robust

Coatings based on DEGADUR® 418 and sealed with DEGADUR® 526 are particularly suitable for easily cleaned, anti-skid, and hygienic surfaces in the catering industry. The DEGADUR® 526 seal coat is distinguished by high abrasion resistance as well as excellent resistance to hot water and grease, and is therefore ideally suited for wet areas.

APPLICATION AREAS

- Hotel and catering kitchens
- School, corporate and other institutional cafeterias



A solid base for retail and industry

Industrial and commercial flooring is exposed to considerable load, particularly from the passage of vehicles with small or large wheels, shopping carts, forklift trucks or pallet trucks. It must therefore be capable of withstanding high mechanical loads without showing signs of wear.

DEGADUR® 151/165: tough stuff

DEGADUR® systems have particularly high compressive strength and good abrasion resistance. And yet another advantage of DEGADUR® comes to play here: Flooring based on this reactive resin is highly resistant to solvents and fuels.

APPLICATION AREAS

- Supermarkets, cafés
- Retail outlets
- Selling or display areas
- Offices, warehouses, store rooms and production areas
- Metalworking industry
- Pharmaceutical industry
- Laboratories
- Print shops, workshops
- Corridors and vestibules
- Maneuvering areas



DEGADUR® for circulation and storage areas are subjected to a wide range of loads

Outdoor applications

DEGADUR® 332 and DEGADUR® 529: Functional systems installed outdoors brave all weathers
Flooring based on DEGADUR® 332 and sealed with DEGADUR® 529 are especially suitable as flexible outdoor coatings. These are particularly heavily exposed to snow, rain, vehicular and public traffic. Whether in parking lots, balconies or zoo enclosures, DEGADUR® can offer custom-tailored systems — for any application.

APPLICATION AREAS

- Outdoor surfaces, loading ramps
- Parking areas, vehicle depots
- Production areas and warehouses subjected to heavy mechanical loads



Reliable coating of moist substrates

DEGADUR® 111/F111: Makes moisture immaterial

Substrates may often contain excess residual moisture or be unsuitable for conventional coatings after precipitation. This results in delays caused by additional drying measures or, if ignored, a high risk of floor failure.

DEGADUR® 111/F111 has been specially developed for damp substrates and can bind securely to the substrate even in the presence of moisture. The primer thus saves considerable time in the coating process and provides the correct support for the coating.



Certified solutions for occupational health and safety

Caution, slippery floor!

In workspaces where there is a risk of slipping, particularly in wet areas, floors must be made skid resistant as a preventive safety measure. DEGADUR® systems have been tested by the BGIA (Occupational Safety Institute of the German Employers' Liability Insurance Association) in accordance with BGR 181 and DIN 51130 and certified for all common skid resistance levels (R9 – R13).





A wealth of design options, from muted to multicolored, turn your floor into an eye-catcher

Decorative systems

DEGADUR®-based coatings offer a variety of design options during installation. The surface can be decorated with colored sands or chips as the customer wishes.



Facts and figures

Quality, environment, and health

Quality and environmental management

As a leading global supplier of methacrylate chemistry, Evonik Industries guarantees the highest quality and reliability in its branded products. Our safe and eco-friendly production is carried out in certified facilities using approved substances. Evonik has an “integrated” management system for environmental protection, safety, and quality, and is certified according to the globally valid ISO 9001:2008 and ISO 14001:2004 standards.

More than 50 years of experience for our customers

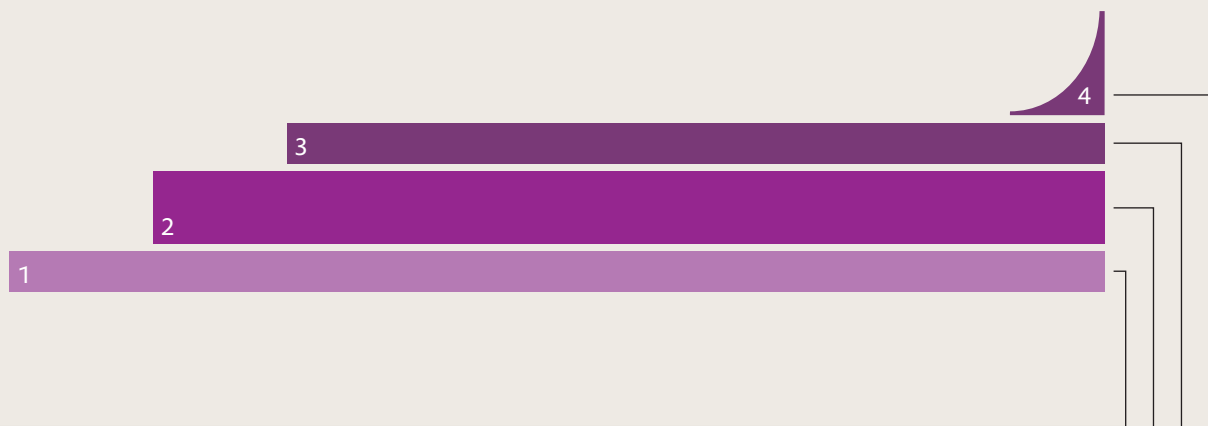
Evonik has been producing DEGADUR® reactive resins from its own raw materials (methacrylates) at the Hanau site for more than half a century and markets them through an international network of partner companies and firms specializing in industrial and commercial flooring. Methacrylate chemistry is among the company’s core business areas. Methacrylate-based specialties include, for example, Evonik’s PMMA acrylic sheet products, known worldwide under the PLEXIGLAS® brand name (ACRYLITE® in North America).

ESHQ

(Environment, Safety, Health and Quality) policy

As a company committed to responsible care, we regard environmental and natural resources protection as being among the most important challenges in securing the future. Flooring systems containing DEGADUR® have been certified by independent institutions. In 2013 the Institut Bauen und Umwelt e.V. (IBU) certified the DEGADUR® reaction resins of Evonik Industries AG with an environmental product declaration. This testifies to the sustainability of DEGADUR® impartially, transparently, and in a way that can be reliably verified, in the form of a life cycle assessment that focuses on transparency over the entire product life cycle. The environmental indicators assessed include global warming potential and ozone degradation potential as well as energy and raw material consumption.





1 DEGADUR® Primer



Primer
Priming of the
substrate.

2 DEGADUR® Base Coat



Base Coat
Application of the coating in
the necessary layer thickness;
broadcasting with silica sand
before curing.

3 DEGADUR® Seal Coat



Seal Coat
Application of the
seal coat.

4 DEGADUR® Coving

The most commonly used DEGADUR® products

Primer	Base Coat	Seal Coat
DEGADUR® Crack Sealer	DEGADUR® 050	DEGADUR® 165
DEGADUR® 111	DEGADUR® 131	DEGADUR® 526
DEGADUR® 112	DEGADUR® PC Liquid	DEGADUR® 527
DEGADUR® B71	DEGADUR® 151	DEGADUR® 528
DEGADUR® Bridge Primer	DEGADUR® 330	DEGADUR® 529
DEGADUR® Primer ST	DEGADUR® 332	DEGADUR® Seal Coat
DEGADUR® Primer	DEGADUR® 418	DEGADUR® Hard Seal
	DEGADUR® 419	
	DEGADUR® 430	
	DEGADUR® 510	
	DEGADUR® Road Coat	
	DEGADUR® Hard Coat	



Where to buy DEGADUR®

The experts for your flooring project

As the producer of DEGADUR®, Evonik is a specialist in the development and production of high-grade methacrylate resins used as starting materials in the production of fast-curing flooring systems.

Construction managers and architects

The coating process, from preparation of the floor, through formulation of resins with aggregates, to layer-wise application of primer and upper layers, is executed by companies specializing in flooring technology. Evonik collaborates exclusively with trained and certified specialists possessing a broad knowledge of the field and specific expertise in the processing of our DEGADUR® products.

Please contact us for details of your nearest DEGADUR® specialist for your flooring project.

Installers and distributors

Our expert contacts would be happy to answer your questions on DEGADUR®.

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