

# DEGADUR CR

(elasticized. cold-room and freezer application)

---

## Description

A liquid – applied highly elasticized flooring system formulated with solvent – free and cold-curing methyl methacrylate resin which is manufactured by DEGUSSA/ROHM Specialty, Germany.

DEGADUR CR cures rapidly at low temperatures and applications can be done up to -40% C and curing is achieved after only a few hours. Thickness can range from 2mm to 10mm variable in colour for a smooth or textured anti-skid finish.

## Uses

A highly elasticized protective flooring for cold-rooms, freezers and suitable for all low temperature environment applications.

## **Benefits & Properties**

- The only synthetic resin that can be applied at sub zero temperatures.
- Applications possible at temperature up to – 40% C.
- Do not have to shut down cold rooms/freezers during applications.
- Tough, long lasting and more elastic than any other floorings.
- Seamless and far more superior and hygienic than tiles after installation.
- Excellent wear resistant against vehicular traffic.
- Absorbent to shock impact and thermal movements
- Superior corrosion-proof against most industrial chemicals.
- Non-porous, waterproofing and totally impermeable to water/liquid.

- Super fast curing – 100% and withstand full loads just two hours after application.
- Applicable directly onto concrete, metal and most solid substrates.
- Overcoating and recoating easily applicable .

## Safety and Standards

DEGADUR meets all GMP, HACCP, USDA standards; complies with Toxic Substance Control Act and is designated as non-carcinogenic by NTP, IARC, and OSHA.

## Areas of Application

### **Commercial**

Cold rooms, freezers and low temperature areas throughout the food industry, cold storage and warehousing.

## Application Technique

### **Surface Preparation**

- Removal of top loose particles, surface laitance, oil and grease by captive steel shot-blasting, machine grinding and scarifying.
- Vacuum cleaning and brushing to provide dust-free open textured surface.

### **Priming**

- All prepared surfaces to be primed with DEGADUR 112 floor sealer to close all joints and pores and leave to dry.

### **Coating**

- Curing of DEGADUR CR resins is accelerated with the addition of Accelerator 101 at cold temperature.

- Application of DEGADUR base coat is fluid-laid in one working process using trowel; drying time in 45 minutes.
- DEGADUR top coat is similarly applied to self-smoothing finish; 100% curing within 2 hours.

## Construction Requirements

- 1.The concrete slab shall be reinforced concrete of minimum 100mm thickness.
- 2.The slab shall be waterproofed with an impermeable barrier against rising moisture (ground water effect) by using 250 micron thick HDPE / PVC membrane well laid with minimum 150mm wide over – lapping sealed with bituminous tape.
- 3.The surface shall have a minimum compressive strength of 21 N/mm<sup>2</sup>
- 4.The concrete surface shall be power-floated to smooth finish free of sealer , curing agents and surface irregularities.
- 5.All new concrete surfaces shall be allowed to cure 21 days before commencement of DEGADUR Industrial Flooring.
- 6.TEXTRACO's representative shall inspect the floor at least 30 days before commencement of DEGADUR application. We shall report immediately to the building owner, architect, consultants and main contractor of any unsatisfactory condition in writing. TEXTRACO shall also write to all parties respectively to acknowledge acceptance of the floor in satisfactory condition.

---

**TEXTRACO (MALAYSIA) SDN BHD**<sup>122000-D</sup>

NO 42 JALAN BAGAN NIRA 26/8, KAWASAN HICOM, SEKSYEN 26, 40400 SHAH ALAM, SELANGOR DARUL EHSAN

TEL : 603-51929172, 51929173 FAX 03-51929175 Website : [www.textraco.com.my](http://www.textraco.com.my)

## Health & Safety

During the application of DEGADUR, methacrylate fume, recognisable by its distinctive and characteristic odour is released briefly until curing. This typical odour functions as a warning and the perception threshold is between 0.05 – 0.21 ml/m<sup>3</sup> (ppm) well below the permissible maximum concentration of 50 ml / m<sup>3</sup> for the work place (MAK-value).

DEGADUR is safe, nontoxic and has no adverse health effect. It complies to Law on Food Stuffs and Articles of Daily Use.

## Further Information

- Chemical Resistant Chart
- Certificates Of Physiological Inoffensiveness.
- Maintenance program and manual.
- Test Report & MSDS

<u>Property</u>	<u>Test Method</u>	<u>Value</u>
Specific Gravity	DIN 53479	2.1 Kg/L
Compressive Strength	DIN 1164	60N/mm <sup>2</sup>
Flexural Strength	DIN 1164	21N/mm <sup>2</sup>
Tensile Strength	DIN 53455	16N/mm <sup>2</sup>
Elongation at Fracture	DIN 1164	45%
Modulus of Elasticity	DIN 53456	5500N/mm <sup>2</sup>
Ball indentation Hardness	DIN 53456	98N/mm <sup>2</sup>
Water Absorption (4 days)	DIN 53456	<0.1%
Shore D Hardness	DIN 53505	76-78
Surface Resistance	DIN 53482	8.0.10 <sup>12</sup> Ohm
Volume Resistance	DIN 53482	7.0.10 <sup>13</sup> Ohm.cm
Coefficient of Thermal Expansion	VDE 0304/1	50.10 <sup>-6</sup> K <sup>-1</sup>
Resistance to thermal Deformation (Vicat)	DIN 53460	80 <sup>0</sup> C
Colour Fastness	-	absolute stability
Full Cure (100% traffic & Loading)	-	maximum 2 hours
Lowest working temperature	-	-40 <sup>0</sup> C