

DEGADUR ES

(moisture barrier screed. damproofing. waterproofing)

Description

A mortar screed undercoating to resist rising ground moisture effect and complete with a self-levelling top coat using solvent-free and cold-curing methyl methacrylate resin manufactured by DEGUSSA / ROHM Specialty , Germany.

Applications in thickness ranging from 3mm to 6mm and variable in colour.

Uses

A seamless protective flooring which is chemical resistant and hard-wearing specially for old floor without ground waterproofing and floor at ground level with high water table. Suitable for bonded warehouse , all industrial, commercial and public buildings.

Benefits & Properties

- Damproofing and waterproofing.
- Tough, long lasting and hard-wearing.
- Excellent wear resistant vehicular traffic.
- Superior corrosion-proof against most industrial chemicals.
- Dustproofing, hygienic and easy maintenance.
- Variable in pattern , colour and finished texture.
- Applicable in low temperature.
- 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

Industrial

- Production, processing and packing.
- Gangway, corridor and changing room.
- Loading bay warehouse and workshop.
- Office and canteen.
- Cold room and freezer.
- Chemical storage / loading.

Commercial

- Office, retail and hotel.
- Supermarket and hypermarket.
- Commercial kitchen, bakery, meat and all food processing area.
- Food court, restaurant and eatery.
- Toilet and wet floor.
- Loading bay, ramp and deck.
- Ground level car park.
- Sports and utilities.

Educational

- Office, lecture hall and classroom.
- Hostel, library and laboratory.
- Multipurpose hall and canteen.
- Workshops, sports and utilities.

Medical

- Kitchen, food court and food preparation.
- Common walkway and corridor.
- Pre & post operative ward, waiting room and hall.
- Medical, surgical area and laboratory.
- Laundry, store, toilet and refuse chamber.
- Loading bay, ramp and receiving deck.
- Cold room and freezer.
- Multistorey car park.

Application Technique

Surface Preparation

- Removal of top loose particles, surface laitance, oil and grease by captive steel shot - blasting , machine grinding and scarifying.
- Remove surface dampness by flame torching.
- 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

- All irregularities and pot holes are filled with DEGADUR filler to the desired uniformity.
- Application of DEGADUR moisture barrier screed is spread and levelled with wood float and steel trowel.

TEXTRACO (MALAYSIA) SDN BHD^{122000-D}

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

TEL : 603-51929172, 51929173 FAX 03-51929175 E-MAL : txtco@streamyx.com Website : www.textraco.com.my

- An electrical or pneumatic HOOVER power-trowel is used to compact and level further the barrier screed to uniformity.
- Apply DEGADUR seal / scratch coat onto barrier screed to further level surface.
- Apply DEGADUR self-levelling DEGADUR top coat to smooth non-slip finish.
- For anti-skid finish, silica or coloured quartz are broadcasted and top with a pigmented / transparent roll-on coat.
- 100% curing is achieved within 2 hours after application.

Construction Requirements

1. The floor 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 floor surface shall have a minimum compressive strength of 21 N/mm² and withstand an imposed load of 10 KN/m² uniformly distributed.
4. The floor shall already be provided with fall for good water drainage and free from ponding.
5. The concrete surface shall be power-floated to smooth finish free of sealer , curing agents and surface irregularities.

6. All new concrete surfaces shall be allowed to cure 21 days before commencement of DEGADUR Industrial Flooring.
7. 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.

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/m³ (ppm) well below the permissible maximum concentration of 50 ml / m³ 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	65N/mm ²
Flexural Strength	DIN 1164	19 N/mm ²
Tensile Strength	DIN 53455	14 N/mm ²
Elongation at Fracture	DIN 1164	36%
Modulus of Elasticity	DIN 53456	4250N/mm ²
Ball indentation Hardness	DIN 53456	110N/mm ²
Water Absorption (4 days)	DIN 53456	<0.1%
Shore D Hardness	DIN 53505	78-80
Surface Resistance	DIN 53482	8.0.10 ¹² Ohm
Volume Resistance	DIN 53482	7.0.10 ¹³ Ohm.cm
Coefficient of Thermal Expansion	VDE 0304/1	50.10 ⁻⁶ K ⁻¹
Resistance to thermal Deformation (Vicat)	DIN 53460	80° C
Colour Fastness	-	absolute stability
Full Cure (100% traffic & Loading)	-	maximum 2 hours
Lowest working temperature	-	-40° C



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