



▶ DEGO PMMA system

Cold Plastic PMMA Car Park and Vehicle Traffic Decking Systems

DEGO waterproof car park decking, cosmetically enhances car parks and is exceptionally durable and hard-wearing. These qualities make it the ideal choice for today's car parks and vehicle traffic decking, where first impressions count.

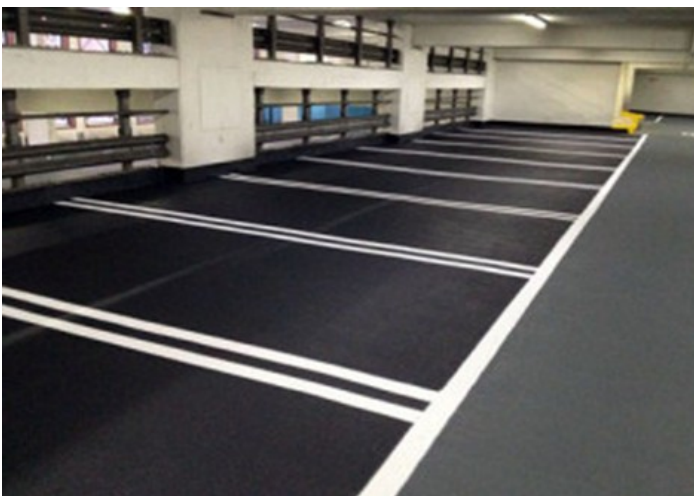
DEGO is backed by rapidly curing highly elastic methacrylate resin with 181% elongation, for extremely impact resistant toppings and protection against high dynamic loads in high traffic areas such as Ramps, Loading Docks, Heavy traffic driveways. Its especially suitable for elastic indoor and outdoor surfaces. The promise of fast installation time provides a convenient and effective method of protecting new developments, as well as enhancing ageing concrete structures.

BENEFITS :

- Rapid installation
- Fully trafficable within 2 hours
- UV and weather resistant
- Waterproof wearing surface
- Excellent crack bridging property
- Adjustable Anti-Skid property
- No over coating limit - easy to repair
- Colorful Coating

APPLICATION AREAS:

- Multi Stored Car Parks
- Elevated Walkways
- Ramps and Overpasses
- Vehicle Traffic Decking
- Bridge and Road Coatings
- Anti-Skid Color Pavement





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Installations and Finishing

DEGO systems shall be installed at a minimum thickness of 1mm

Priming. The primer coating shall be installed in a thickness of between 0.35 - 0.5mm depending upon the roughness of the surface. The primer coating must be completely dry before any subsequent material is applied. (Approximately 25 - 40 minutes).

Joints. Wherever construction, expansion and control joints exist in the concrete floor or between plywood panels, the applicator shall provide corresponding joints with appropriate DEGO resin systems, installed.

Cove Base. DEGO cove bases shall be installed as required in the drawings, specifications or finish schedules.

Broadcast Aggregate. Before cure, aggregates shall be broadcast into the DEGO base coat to achieve texture specified by the owner or architect. Type of aggregates used is conditional upon traffic in the area.

Top Coat. A roller-applied DEGO clear or pigmented topcoat shall be installed in accordance with manufacturer's instructions.

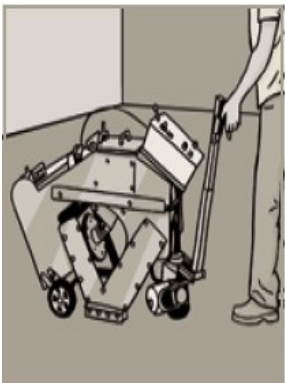
Application on Concrete

General application conditions :

Bonding performance depends on substrate quality in general. DEGO based cold plastics require appropriate conditioning of the pavement and suitable ambient conditions to achieve full performance. Fresh concrete must be fully cured and laitance, concrete surface treatment agents need to be removed completely. The concrete surface has to be dry, free of any loose particles, dust, dirt, oil, grease etc.

Moisture content of the concrete should be not more than 4 %. Porous surface texture is required to ensure good resin penetration for a good adhesion. If necessary a pre-treatment by e.g. high-pressure water jet or short blasting and vacuuming to open the substrate is recommended. A pull off strength of minimum 1.5 N/mm² should be achieved in general.

Priming with a DEGO Primer is necessary. Typical primer consumption ranging from 300 to 500 g/m² depending on the absorption of the concrete.



Remove all traces of old coatings.



Apply primer to the clean, dry substrate using a squeegee and roller.



Apply the coating in the required layer thickness.



Broadcast the coating with quartz sand before it has completely cured.

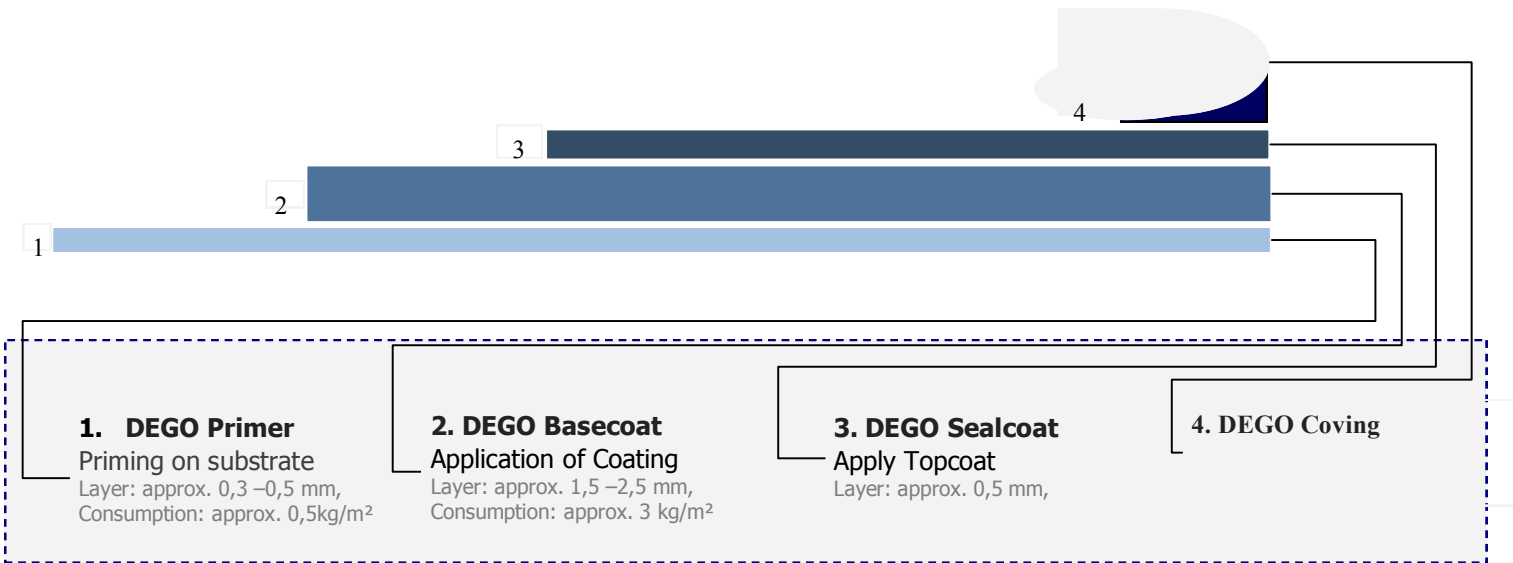


Apply the seal coat using a squeegee and roller.





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Typical Properties DEGO

Physical Tests - Systems

| Property | Test Method | Units | DEGO Primer system |
|--|------------------|-------------------|---|
| Tensile E -Modulus | DIN EN ISO 527-I | MPa | 13,7 |
| Tensile strength | DIN EN ISO 527-I | Mpa | 1,4 |
| Elongation at break | DIN EN ISO 527-I | % | 78 |
| Compressive Strength | DIN 1164 | N/mm ² | 22 |
| Bending Strength | DIN 1164 | N/mm ² | 14 |
| Flexural Strength | ASTM C580 mod | N/mm ² | 8 |
| Bond Strength | ACI 503R | N/mm ² | Substrate Failure (1.5N/mm ²) |
| Coeff. Of Thermal Exp. | VDE 0304/I | 10E-5/K | 7.9 |
| Vicat Temperature | DIN 53460 | deg. C | 60 |
| Ball Impact Hardness | DIN 53456 | N/mm ² | 50 |
| Shore Hardness | DIN 53505 | N/mm ² | 65 |
| Wear Resistant, (4 Mil wheel cycle, RPA wear simulator) | EN 1436 | % Retained | 100 |
| Taber Abraser, (Wheel H22, 500g weight, 1000 turns) | | Weight loss | 0,26g |

System properties are dependent upon quality and size of fillers, as well as adherence to our recommended formulations. Measurements conducted at 20 deg. C and 24 hours cure where applicable.

