
TECHNICAL DATA SHEET

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Name of product:

Efadeck™ Original 0451

Type of product:	Single-pack moisture curing polyurethane floor paint.
Application:	Provides concrete floors with a strong, dust free, chemically resistant surface. Light grey color is standard. This product is for professional use only.
Properties:	Hard wearing, with good resistance against water and chemicals. The abrasion resistance is measured according to Taber-abraser (ASTM D 4060-84): 38,7 mg/1000 rpm. Spills of gasoline, engine oil, diesel, waste oil, battery acid, or brake fluid will not harm the paint, if the spills are removed without delay.
Solids:	72 weight % 57 vol. %

Pre-treatment:

New concrete floor:

The floor must be clean and dry - max. 10 % RH. If the concrete has been steel trowelled to make the surface impenetrable, thorough grinding is recommended (pls. see below).

Due to poor adhesion, concrete floors to which curing or sealing has been applied can not be painted with Efadeck™ Original 0451.

The concrete is primed using either Efadeck™ Original, thinned by 30% Synthetic Thinner 0700 68063, or Efadeck, clear, series 0454.

In order to achieve good adhesion the primer layer is preferably applied by a broom.

NB! By painting on self-compacting concrete the first layer has to be diluted 50 % with Syntetic Thinner 0700 68063 and the second layer by 30 %. The toplayer must not be diluted.

After min. 4-6 hours or max. 24 hours drying time, apply one coat of Efadeck™ Original 0451, by brush or roller without thinning.

If the paint dries more than 24 hours there is a risk that the topcoat does not adhere to the primer layer. It is recommended to paint with a thinned (ca. 10-30%) Efadeck™ Original 0451 or to sand the floor then.

Ensure there is adequate ventilation during application and the entire drying process, as with insufficient ventilation gloss inequalities can occur.

If required, a third coat may be applied after min. 12-16 hours, but before 48 hours.

GRINDING OF CONCRETE FLOORS:

Prior to painting a concrete floor, it is necessary to check if the concrete will allow the paint to penetrate and adhere. This may be done by placing drops of water on the concrete surface and observe if the drops remain as pearls on the surface, or if the concrete surface absorbs the water. If the water penetrates the concrete surface, the floor will be ready to paint after cleaning and vacuuming. If the water remains as pearls on the surface of the concrete, the concrete must be ground with a suitable floor grinder or shot blasted. The grinding must be through enough to allow the water droplets to penetrate into the concrete. Sweep or vacuum clean the floor.

REPAINTING OF OLD EFADECK FLOOR:

Loose Efadeck™ Original 0451 has to be removed. Clean thereafter the floor with Esbjerg Cleaner 10% solution and rinse carefully with water. Bare spots without Efadeck must be primed with Efadeck™ Original 0451 thinned by 30 % Synthetic Thinner 0700 68063. Paint then the floor with 1-2 layers of Efadeck™ Original undiluted - see: New concrete floor.

REPAINTING OF AN OLD EVT. PAINTED FLOOR:

Please contact our technical department for advice.

Application:**Method:**

Paint Brush
Broom
Roller

Recommended viscosity:

No thinning required
No thinning required
No thinning required

Thinner:

Drying:

	Drying time	Film thickness - dry
Dry to use	12-16 hours 20 °C	-
Recoat before	1 day(s) 20 °C	-
Fully cured	3 day(s) 20 °C	The floor must be fully cured before use.
Fully cured @ low temperature	4 day(s) 15 °C	The floor must be fully cured before use.
Dry to use @ low temperature	24 hours 15 °C	Since the product dries by using the moisture from the air, the drying time will be longer at low humidity (eg. during the winter period). Minimum humidity is 30%.

Coverage: Theoretical: 6 m²/ltr.

Storage: Frostfree, cool, and closed.

Shelf-life: 12 Months in an unopened container

Cleaning: Tools clean with Synthetic Thinner 0700-68063. Dont clean the floor before it is fully cured. Recommendations from supplier regarding dosage of soap/detergent must be followed. The best cleaning of the floor is done with Esbjerg Cleaner - see the user instruction.

Available colors: Grey.
Specialty colors can be made to order provided order qty. is 200 liters or more.

VOC explanation: Please see the can label for information regarding VOC content.
Product marking: 2004/42/IIA(X)(YY)ZZZ
EU directive number: 2004/42/
Directive annex number: IIA
Product subcategory: (X)
VOC content limit value g/l 2010: (YY)
Maximum VOC Content in this product when ready for use, g/l: ZZZ

Note: Efadeck™ Original 0451 may turn slightly yellow by exposure to direct sunlight. If a non-yellowing floor is required for esthetical purposes, we recommend PUR Enamel, series 0440.
PUR Enamel can also be used, if there is a need for a floor with an aesthetic nice surface that also is very easy to clean eg. in garages. Specialty colors in PUR Enamel can be made to order - even by small batches.

Please make sure that the entire quantity of paint needed for the job has the same batch number. Use of different batch numbers may lead to variations in shade unless the batch numbers are mixed prior to application. NB! Efadeck™ Original 0451 must be fully cured before the floor is exposed to oil or othe chemicals. The curing is prolonged by lower temperature and low humidity - see point: Drying.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their use. It should not, therefore, be construed as guaranteeing specific properties of the product described or its suitability for a particular application. The quality of our products is guaranteed under our General Conditions of Sale.

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