TIKKURILA

NOVOCRYL MASSALAKKA

DESCRIPTION	Two-component, solvent-free acrylic coating.
RECOMMENDED USES	Old and new concrete floors indoors and outdoors. Applications include: walkways,outdoor terraces and balconies. Can be used on surfaces exposed to heavy stress.
PRODUCT FEATURES	Used for making of Novocryl acrylic floor coatings. Suitable to be used with sanding method and as a binder for abrasive pulp. Suitable for fixing concrete floors if saturated with sand. Hardens quickly even at low temperatures. For professional use only.

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TECHNICAL DATA

Colour Shades	The colour tint of the pulp is determined by the sand used.
Gloss	Gloss. (4/RT classification)
Coverage	Concrete floor treated with Novocryl coating, where for sanding 0.7-1.2mm of coloured sand used. Method 1, Sanding method: Consumption of Massalakka approx. 1 kg/m² + coloured sand 2.0-3.0kg/m², grain size 0.7-1.2mm (eg Scanmineral) Method 2, grinding screed 4-6mm: Consumption of Massalakka approx. 1.5kg/m² + coloured sand approx. 4.5kg/m², grain size 0.7-1.2mm (eg Scanmineral) + quartz sand 1.5kg/m², grain size 0.1-0.6mm Spreading rate is affected by smoothness of the base and desired layer hardness.
Can sizes	19 kg
Thinner	No need for thinning.
Mixing ratio	Temperature* - The amount of hardener (percentage of weight of the binder) +5ºC - 5.0% +10ºC - 4.0% +20ºC - 2.0% +30ºC - 1.0% * Temperature of the binder, air and the floor
Application method	Spatula, roll or brush.
Pot-life (+20°C)	Approx. 25min.
Drying time	Approx. 45min. Next treatment after hardening of the previous treatment.
Density (kg/l)	0.98kg/l ready-to-use mixture.
Volume solids (%)	100
VOC	VOC 2004/42/EC (cat A/j) 500g/l (2010) Novocryl Massalakka: max. VOC < 500g/l

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Storage	Hardener must be added! For professional use only.

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APPLICATION INSTRUCTIONS

Application conditions
The relative humidity of the concrete should be less than 97%. During varnishing and drying, the air, the base and the lacquer must be above +5ºC and the relative air humidity less than 80%.

Mixing components
Add the hardening powder to the lacquer at the correct mixing ratio and mix thoroughly (approx. 2 min) with a low speed drill with paint mixer. The amount of mixture is affected by the area to be coated and the use time of the mixture. Careless mixing or wrong mixing ratio results in uneven hardening, weakening of the properties of the lacquer surface and jeopardizing the success of the work.

When preparing the grinding screed, the hardening powder must be carefully mixed to the lacquer component before adding the sand.

Surface preparation
New concrete: Remove laitance by power grinding, vacuum grit blasting or hydrochloric acid etching. Choose the method best suited for the premises. After grinding remove dust carefully with a vacuum cleaner. Hydrochloric acid etching is carried out with diluted hydrochloric acid (1 part concentrated hydrochloric acid, 4 parts water). Rinse with plenty of water. Dry the floor.

Old concrete floor:
Remove old, flaky paint film by diamond grinding, milling or sandblasting. Choose the method best suited for the premises. Clean the cavities and potholes in the floor up to healthy, clean concrete. Open cracks, eg with an angle grinder. Remove loose material and dust.

Patching
Broadcast method 2-3 mm:
Pour the Novocryl Massalakka mixture into the floor that has scattered sand on it. Level the surface with a spatula, roller or brush, depending on the size and model of the floor. Sprinkle sand on top of the fresh Novocryl Massalakka immediately. Sprinkle sand until the lacquer layer is completely covered (> 2 kg / m). Excess sand is removed by vacuuming after the coat has dried.
Trowel method 4-6 mm:
Pour the entire Novocryl Massalakka mixture on the floor. Apply with a trowel to the desired layer thickness. Smooth the screed with a sharp-tipped steel spatula (so-called sword spatula).

Priming
Prime using Novocryl Pohjuste. Pour the primer mixture onto the floor and apply by the trowel or roller as much as is needed to impregnate the concrete surface. If necessary, repeat priming to get a non-porous surface. A porous priming coat will result in holes and air bubbles in the finished coating. Subsequent treatment can be carried out after 30 min.

Sprinkle the selected colored sand on top of the fresh varnish so that you do not have to brush off the extra sand from the hardened primer.
The most common grain sizes for colored sand: Ø 0.3-0.8 mm and 0.7-1.2 mm or a mixture of these.
Consumption of colored sand approx. 1 kg / m² (eg Scanmineral).

Lacquering
Surface varnishing is done with Novocryl Pintalakka.

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Coating
Topcoating can be carried out after the screed has cured. Topcoating can be carried out with Novocryl Pintalakka topcoat.
Note! Add the remaining mixture to the next batch of the product, do not scrape it out of the container onto the floor.

Screed
Pour the Novocryl Massalakka mixture onto the floor. Apply by an adjustable trowel to the desired thickness. Trowel the screeded surface by hands or use broadcasting technique.

Cleaning of tools
Acetone (thinner 006 1500).

Environmental protection and waste disposal
Avoid spillage into drains, water systems and soil. Destroy liquid waste according to the local regulations for hazardous waste. Recycle empty, dry cans or dispose them of in accordance with local regulations.

Health and Safety
Contains: methyl methacrylate, 2-ethylhexyl acrylate, triethylene glycol dimethacrylate. **DANGER.** Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor. Avoid release to the environment. Wear protective gloves/clothing and eye/face protection. In case of inadequate ventilation wear respiratory protection. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical attention. Contains small amounts of sensitizing substances: 2-ethylhexyl mercaptoacetate.

GHS02 GHS07

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EN 13813

CE

Tikkurila Oyj
Heidehofintie 2
FI-01300 VANTAA

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TIK-A011-2018

EN 13813

Synthetic resin screed.

Impact resistance	IR4
Chemical resistance	Class I
Wear resistance to rolling wheel	AR 0,5
Release of corrosive substances	SR
Reaction to fire	Efl
Water permeability	w < 0,1 kg/m²•h0,5

Bond strenght B 2,0

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EN 1504-2

CE
1119
Tikkurila Oyj Heidehofintie 2 FI-01300 VANTAA
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TIK-A010-2018
EN 1504-2
Product for protection and repair of concrete structures – Coating.

Permeability to CO2	s_D > 50 m
Impact resistance	Class I: ≥ 4 Nm
Capillary absorption and permeability to water	w < 0,1 kg/m²•h0,5
Abrasion resistance	< 3000 mg
Reaction to fire	Efl-s1
Adhesion strength by pull off test	≥ 2,0 N/mm²
Release of dangerous substances	NPD
Permeability to water vapour	Class III, sD > 50 m
Resistance to severe chemical attack	Class I