

COLTECH® GRIPELAST

TECHNICAL DATA SHEET
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Polyurethane Anti-Skid Protective Coating

Product description

The COLTECH GRIPELAST is a superior, waterbased, hard-elastic, single component, Polyurethane-based high-solids texture coating, used for the creation of high traction ,anti-skid surfaces in Marine applications.

This high-technology coating is saltwater resistant, weather stable, permanent hard-elastic, extremely durable to pedestrian traffic, while providing a comfortable feeling while walking and optically appealing results.

The COLTECH GRIPELAST creates an anti-skid texture on the surface that can be adjusted from a rolled "pleasure boat" texture to an industrial grip "work boat" texture. The boat deck will look new again and will be protected from the combined weather influences and heavy use.

Uses

Yachts and workboats are permanently exposed to a combination of moisture, saltwater and saltwater spray. The result is slippery and dangerous decks, stairs and external surfaces that can potentially result to serious injuries.

The solution is offered by COLTECH® GRIPELAST, the advanced Non-Skid Deck Coating, that can be applied on:

- Yachts
- Sailboats
- Fishing Vessels
- Steel/Aluminum/Fiberglass/Wood Boats
- Docks, Walkways, etc.

Advantages

- Simple application (texture roller)
- Water based, no volatile solvents
- Polyurethane based, no inferior Acryl admixtures
- When applied forms a durable high traction and anti-skid texture
- Provides permanent elasticity that results in a comfortable feeling while walking
- Low-glare, IR reflective finish
- UV-resistant.
- Resistant to water and seawater.
- Resistant to frost.
- Full surface adherence.
- The anti-skid texture can be adjusted according the final needs.

Consumption

0,5 – 1,5 l/m² in one textured layer, depending on the desired anti-skid result.

Colors

The COLTECH GRIPELAST is supplied white, light grey, beige and light blue.

Other colors can be achieved by mixing of universal pigment pastes suitable for water-based coatings (max. 2%), to the COLTECH GRIPELAST - White.

Technical data*

Technical data		
PROPERTY	RESULTS	TEST METHOD
Composition	Waterbased Polyurethane, high-solids, thixotropic coating	
Elongation at Break	150%	DIN EN ISO 527
Tensile Strength	2 N/mm ²	DIN EN ISO 527
Hardness (SHORE A Scale)	40-50	ASTM D 2240
Water vapor permeability	10 gr/m ² 24hours	EN ISO 12572
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Adhesion to wood	>1,0 N/mm ²	ASTM D 903 (ELCOMETER)
Application Temperature	5°C to 35°C	20°C and 50% RH
Tack Free Time	5-8 hours	
Light Trafficking Time	24-48 hours	
Final Curing time	7 days	
Chemical Properties	Good resistance against diluted domestic detergents, water, seawater.	

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Application

Surface Preparation / Priming

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating membrane. Maximum moisture content should not exceed 5%. Old coatings/varnishes, dirt, fats, oils, organic substances and dust need to be removed by mechanical grinder. Possible surface irregularities need to be smoothened. Any loose pieces and dust need to be thoroughly removed.

Polyester or epoxy fiberglass

Wash surface with de-waxing agent to remove possible wax residues. Then sand well with 60-100 grit sand paper. Wash well with degreasing soap and damp rag wipe 3 times to remove all dust.

Aluminum / Steel

Metals require a primer to protect the underlying metal from rust or corrosion. COLTECH GRIPELAST is compatible with all primers. Apply primer per manufacturer's instructions. COLTECH GRIPELAST will tie-coat to epoxy primers. To tie-coat, apply COLTECH GRIPELAST over the epoxy while the epoxy is no longer tacky but not yet hard. (Test: walk with socks on semi-cured epoxy primer. The epoxy primer is perfect when it tries to take the socks off your feet but releases them before pulling the epoxy off the deck). After curing, sand primer lightly with 100-200 grit sand paper. Wipe up dust 3 times with damp rags.

Wood

Wood needs a coat of Polyurethane primer or sealer to prevent water and co-solvents from absorbing into wood. All Polyurethane primer or sealers are compatible with COLTECH GRIPELAST. Apply primer per manufacturer's instructions. When the primer is cured, sand the primer or sealer lightly to remove any gloss with a 100-220 grit sandpaper. Damp rag wipe 3 times to remove all dust.

Other surfaces

Please consult with COLTECH technical department for detailed information regarding various other surfaces before applying COLTECH GRIPELAST

Masking

Mask all surfaces prior to applying COLTECH GRIPELAST to create an optically appealing surface, by using 3M™ blue or similar making tape. Take care that the surface inside the masking is sanded according instructions above. Makes sure to sand right up to the masking tape.

Application of COLTECH GRIPELAST anti-skid texture coating

Prior to application, stir COLTECH GRIPELAST with a broad paddle/staff, for 2-3 minutes, until the coating becomes fully homogenous.

Apply the COLTECH GRIPELAST coating onto the primed/prepared surface by a broad brush or a suitable teeth (notched) trowel, until all surface is covered with a thick 0.5-2 mm coating. Thinner coats will result in a thin, fine finish texture that is easier to clean and maintain, while thicker coats will result in a thick coating with taller peaks and deeper valleys.

Then use the special COLTECH GRIPELAST ROLLER, to evenly distribute the applied COLTECH GRIPELAST over your masked surface. Then lightly roll back and forth over the surface in any direction (or multiple directions) to even out the texture. Finish the section with a few passes of your roller using a very light pressure to de-aerate the coating surface and create the final optic desired. Remove masking tape before curing of the coating.

COLTECH GRIPELAST coating can be thinned with up to 5-10% of clean water, to slow down drying, in hot and/or arid conditions.

RECOMMENDATION: Practice on cardboard/plywood or any other suitable surface to choose a texture that is right for you.

ADVICE: If not satisfied with the optical result of the COLTECH GRIPELAST, wipe it off completely with a wet rug and reapply.

ATTENTION: Do not apply the COLTECH GRIPELAST during rain and/or if rain is imminent for the next 48 hours. For best results, the temperature during application and cure should be between 10°C and 30°C. Low temperatures retard cure while high temperature speed up curing. High humidity will prolong drying time and offer longer working time. After application, make sure that the surface will not be used for the next 48 hours, even for light pedestrian traffic. Wait for 7 days until full traffic is allowed.

Clean Up

Wash all tools with clean fresh water, while the coating is still wet and uncured.

Packaging

Pails should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

See information supplied by the manufacturer. Please study the Safety Data sheet. PROFESSIONAL USE ONLY

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* All values represent typical values and are not part of the product specification.