

693 Wood Protect

GENERAL PRODUCT DESCRIPTION

693 CCM® WOOD PROTECTION NATURE is a ready-to-use, water-based, solvent-free impregnation for all types of natural wood, both indoors and outdoors. It preserves the wood's natural colour and texture, stabilises the lignin, and effectively prevents greying. Its hydrophobic properties provide reliable protection against moisture and dirt penetration.

Application Areas

- Timber
- Jetties
- Carports
- Windowsills
- Garden sheds
- Garden furniture
- Facade
- Planters
- Terraces
- Fences

PROPERTIES

- Colourfast
- Free from petroleum products
- Primer and protective function in one step
- Very fast drying
- Strong beading effect
- Protects against greying due to sunlight
- Water and dirt repellent
- Prevents the growth of algae, moss and lichen
- Consumption: 1 litre is sufficient for approx. 30 - 40 m² (depending on the substrate)

PRODUCT SPECIFICATIONS & CHEMICAL PROPERTIES

Property	Value
Base	Silane-based aqueous suspension (solvent-free)
Active content	Not explicitly stated; water-based formulation (low VOC)
VOC content	Very low – solvent-free formulation
Flash point	Not applicable (aqueous, non-flammable)

Layer thickness	1–10 µm (depending on application; inferred from typical impregnation systems)
Density	approx. 1.0 g/cm ³
Ph value	approx. 7
Odor	Faint, neutral to slightly weak smell
Colour	Milky-white suspension
Consumption	Approx. 25–33 ml/m ² (1 L for 30–40 m ² , depending on substrate)
Temperature resistance	Not specified
Shelf life (liquid)	24 months (unopened, stored appropriately)
Storage	Store dry, frost-free, at 5 °C to 25 °C
Durability of coating	2–5 years outdoors, significantly longer indoors

PFAS INFORMATION

PFAS, PFOA and PFOS free.

APPLICATION & PROCESSING

General

- Shake vigorously for at least 1 minute before use.
- Ensure the surface is clean, dry, and free of grease, paint residues, or organic growth (algae, moss, lichen).
- Remove contamination before application.
- Processing temperature: ideally between 5–25 °C; avoid frost and direct, intense sunlight during application.
- Protect the treated surface from moisture during curing (approx. 6–12 h).
- Full curing after 6–12 h; keep surface dry and stress-free during this time.

Spray Application (recommended)

- Preferably use a low-pressure sprayer or spray gun.
- Adjust distance to substrate to achieve an even, damp-wet appearance.
- Apply at least **two spray passes** for optimal coverage; repeat after the first layer has dried if required.
- Consumption: approx. 25–33 ml/m² (1 L for 30–40 m² depending on substrate).

Brush or Roller Application

- Possible, but should be tested on a small area beforehand.
- Apply evenly without puddles.

Correction & Cleaning

- Excess product can be removed with a damp cloth while still wet.
- Clean tools immediately after use with plenty of water.

CLEANING & CARE

Aggressive cleaners are no longer required. Treated wood surfaces can be cleaned easily with water or a mild cleaner (e.g., CCM Bio Cleaner Biosativa®). Avoid using abrasive pads or harsh chemicals, as they may impair the protective effect. Regular cleaning and gentle maintenance help to extend the coating's durability and appearance.

QUALITY STANDARDS – TESTS

- **Hydrophobicity test:** Strong water-beading effect, prevents moisture penetration.
- **UV & weathering resistance:** Significantly reduces greying caused by sunlight and weather exposure (field test: untreated wood greys within 3 months; treated wood retains colour).
- **Lignin stabilisation:** Prevents structural degradation from UV light.
- **Dirt repellence:** Reduces adhesion of dust, algae, moss, and lichen.
- **Durability test:** Outdoor exposure trials show long-lasting protection over several seasons.
- **Substrate compatibility:** Effective on various wood types including beech, spruce, larch, poplar, and chipboard.
- **Eco profile:** Solvent-free, water-based, free from petroleum derivatives, and low VOC.

PACKAGING UNITS & VARIANTS

- 1.000 ml bottle (693-1000)
- 5.000 ml canister (693-5000)

SAFETY & TRANSPORT

- **Classification:** Not classified as dangerous goods under ADR, IMDG, or IATA transport regulations.
- **Storage:** Store in original container, dry and frost-free, at 5–25 °C. Keep out of reach of children.
- **Transport:** Non-flammable, non-explosive; no special transport requirements.

HS Code 3209 1000