

TECHNICAL DATA SHEET

P552

V1-08/07/2024

THERMOCOTE 700

DESCRIPTION

P552 is a single pack silicone resin-based coating.

PROPERTIES

- Resistance to high heat.
- Room temperature cure.
- No smoke generation during (first) heating.
- High hardness, no thermoplasticity.
- Suitable for application to externals of pipe work, vessels, chimney stacks, flare stacks, etc, operating at continuous temperature of up to 550°C.
- Fire resistant (class 0).
- Excellent chemical resistance combined with outstanding UV and weathering protection.
- Ideally used as a high gloss topcoat/sealer.
- A thin film coating for protection of other underlying systems in tank lining situations, allowing the system to cure in situ.
- Removes the need for post curing of most lining systems.
- Single pack coating which is easy to apply by brush, roller or spray.
- Corrosion classification C4-C5.

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| COLOUR | : Aluminium |
| Nº. OF COMPONENTS | : Single pack |
| CONSISTENCY | : Liquid |
| VOLUME SOLIDS | : 52% |
| MIXED DENSITY | : 1.15 |
| PRACTICAL SPREAD RATES | : 8 - 10m ² /ℓ |
| DRY FILM THICKNESS (PER COAT) | : 50µm |
| GLOSS LEVELS | : Satin-Gloss |
| FLASH POINT | : >40°C |
| TOUCH DRY @ 25°C | : 1 hour |
| HARD DRY @ 25°C | : 2 hours |
| DRYING PROCESS | : Evaporation by Heat cure or Moisture cure |
| OVERCOATING @ 25°C | : 4 hrs |
| CURING HEAT REQUIRED | : > 150°C (coating requires heat to fully cure) |
| APPLICATION TEMPERATURE | : 10 to 40°C |
| RECOMMENDED NO. OF COATS | : 2 |
| CLEANING SOLVENT | : Lacquer/Spraying Enamel thinners |
| SHELF LIFE | : 12 months |
| PACK SIZE | : 1 & 5ℓt |

RECOMMENDED AREAS FOR USE

Heat Resistant Decorative Coating:

An anti-corrosion coating for mufflers, ovens, chimneys, oven inserts, barbeques and electric and gas heaters.

Corrosion Protection Coating:

It has been designed to provide long-term corrosion protection in immersed and non-immersed conditions ranging from **125°C to 700°C**.

SURFACE PREPARATION

Correct surface preparation is essential for good product performance. The surface to be painted must be clean, free from rust, dirt, oil, grease or other foreign matter using power wash, detergent or solvent wipe. Rinse thoroughly with clean water prior to blasting.

Steel: Preferred surface preparation is abrasive blast clean to Sa.2½ of the International Standard ISO 8501 – 1:2007 to achieve an angular blast profile of 40 – 60 microns.

APPLICATION

Do not apply when ambient temperatures are below 10°C or above 40°C. Apply P552 by brush, roller or airless spray at 8 - 10m²/ℓper coat. The coverage of P552 depends largely on the condition and porosity of the substrate being painted and manner in which the product is applied.

Conditions of Application: Min Temperature: 10°C. Max Relative Humidity: 85%.

For Airless spray: Tip No.
GRACO 415 Paint output
pressure: 8.8 – 10 MPa.

Thinning: 0 - 15 % by volume if needed with Spray enamel thinner.

The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.



SAFETY INSTRUCTIONS

Always keep out of reach of children and animals. Wear a suitable dust mask and goggles when preparing surfaces. Ensure good ventilation during application and drying. If accidental contact with skin, wash immediately with soap and water or a recognised skin cleaner. If accidental contact with eyes, rinse immediately with plenty of water and seek medical advice. Harmful if swallowed. Seek medical attention and do not induce vomiting.

GENERAL

Different surfaces and environmental conditions require specific painting systems to produce the best possible results. It is therefore recommended that you contact a Pendong Sales representative for advice on all your painting requirements whenever possible.

PREVENTING PROBLEMS AND GENERAL INFORMATION

The ambient temperature must be between 10°C and 40°C and humidity between 10% and 85%.
Excessive application thickness and/or rapid drying could lead to mud cracking.
Avoid applying under adverse weather conditions as this could result in poor product performance.
Work from corner to corner, or from a natural cut off point to another.
Do not attempt touch ups, but redo complete panels.

CLEANING, STORAGE AND DISPOSAL

Remove as much paint as possible from application equipment and wash immediately after use with lacquer thinners. Close containers tightly after use and store in a cool well-ventilated area. Do not empty contents or wash water into drains or watercourses. When disposing please follow local authorities regulations and recycle the container after use.

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