

## ROCC Top P-3

### Organic Modified Pre-Ceramic Clear Coating

RT P-3 is a unique Pre-Ceramic, PolySiloxazane coating solution. Compared to the regular “ROCC Top” it is infused with chosen silanes to withstand higher alkaline attack. The cured coating forms a thin, very hard, low-friction layer which smoothens out the irregularities of the surface. RT P-3 has very effective Non-Stick properties and provides a hard, thin-film coating. Due to its Pre-Ceramic composition, RT P-3 can withstand temperatures close to 900°C. In room temperature (RT), the inorganic portion of ROCC Top needs approx. 5 days to cure to reach its final characteristics. Forced curing with increased temperature (80-200°C) after 2h RT is possible. Cracking Threshold: 40+µm layer.

#### Typical properties

- High gloss – Non oxidizing
- High corrosion and chemical resistance
- Non-Stick, hydrofobic, low friction
- High Hardness (up to 6H)
- Covalent bonding to clean metal (no primer)
- UV stable
- Low temperature curing
- **High temperature** resistance
- Easy application

#### Application examples

- Pipe linings
- Tanks
- Transportation
- Offshore/marine applications
- Corrosion protection steel
- Non-Stick Applications
- Sealing of porous substrates (Cast iron).
- Pumps
- Anti-stain

#### Application parameters

|                        |                                    |          |
|------------------------|------------------------------------|----------|
| ▪ Cure (25°C)          | To touch                           | 1h       |
|                        | Hard                               | 4h       |
| ▪ Heat Cure (After 2h) | Fully cured                        | 120h     |
|                        | (80-200°C)                         | 1-2h     |
| ▪ Adhesion             | (Cross Hatch)                      | 5B       |
| ▪ Hardness             | Pencil hardness                    | 5-6H     |
|                        | König DIN 53157                    |          |
| ▪ Gloss                | 60° angle                          | 82%      |
| ▪ Overcoat (25°C)      | Max                                | 15-20min |
| ▪ Solids               | (Solvent Carrier: n-butyl acetate) | 55%      |
| ▪ Cleaning             | Butyl Acetate, Xylene              |          |



## ROCC Top P-3

### Organic Modified Pre-Ceramic Clear Coating

Further Ceramic Explanations:

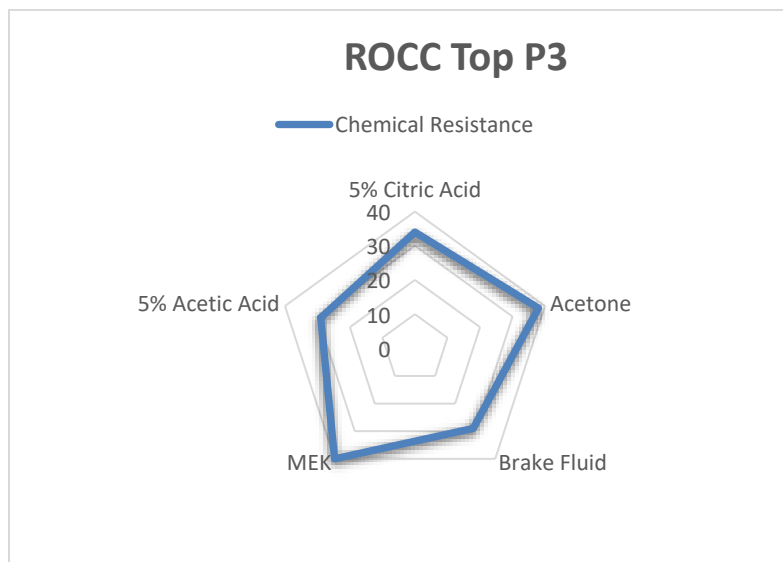
Pre-Ceramic is the stage of ceramics before they enter the vitrification stage. Either chemical or thermal-Vitrification. Normally, for thermal vitrification, at approx. 600°C, the organic elements burn off, and you introduce the stage of pyrolysis. At first this will show as a yellowing, discoloring sequence and further on it will compose to a true ceramic.

The ROCC Top P-3 is a true pre-ceramic and will do just that. The unique formulation of RT P-3 differs by providing its high-level chemical resistance and Non-Stick properties even Before Pyrolysis or Vitrification. Meaning, it provides superior protection over the whole spectrum.

The end product/Coating of a ROCC Top P-3 system allows the protection of substrates to be intact at temperature levels close to 900°C. Chemical Resistance is also excellent.

Due to its non-stick properties the product will improve the ability to avoid bacterial growth on the substrate, where such is not desired, e.g. within food industry.

After curing the material is to be considered as a pure pre-ceramic without any substances that will affect the health of human beings.



# ROCC