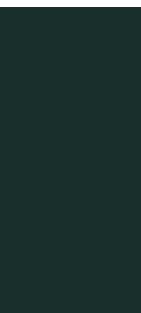
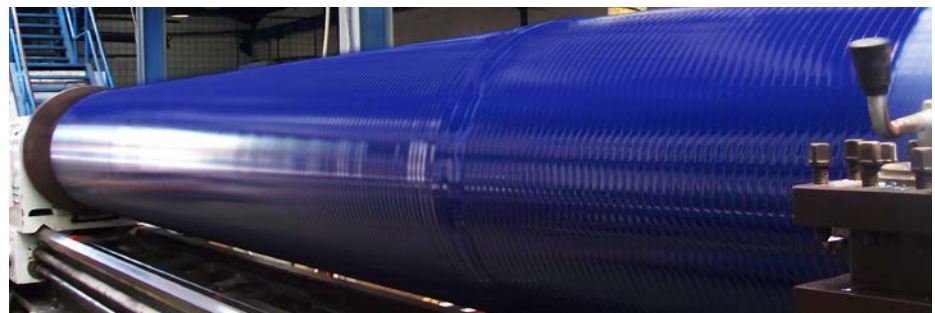
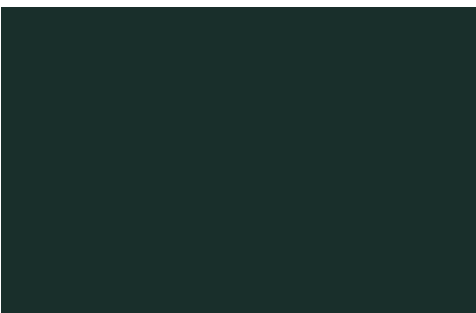


**ERAKOTE**  
Rotational Casting Systems



**Erakote is designed for Rotational Casting high performance industrial rolls without using moulds to reduce both production time and costs.**

## **ERAKOTE RANGE**

The Erakote range is used to produce roll covers with exceptional toughness and abrasion resistance. They have excellent heat, hydrolysis and solvent resistance depending on the grade used. Available in 2 or 3 component systems to cover various customer requirements and applications.

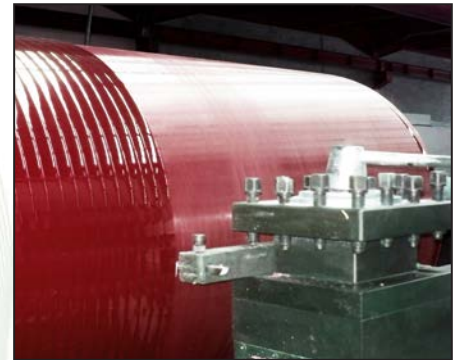
## **EQUIPMENT**

Era Polymers has represented Polytec EMC for more than 20 years and together we can recommend and supply a tailored machinery package for any Rotational Casting requirements.

## **APPLICATIONS**

Erakote systems are used in the production of material handling rolls for the steel, paper and timber industries. Their tough durable nature means they are used extensively throughout the steel industry as Bridle Rolls, Pinch Rolls, Accumulator Rolls, Squeegee Rolls and Work Rolls.

The superior hydrolysis resistance of Erakote systems ensures they are the perfect solution for the paper industry. In the paper industry rolls often exceed diameters of 1m and lengths of 12m. The nature of the Erakote system means these large rolls can be produced without moulds and without oven curing.



## **ERAKOTE SYSTEMS CAN ALSO BE USED FOR COVERS ON:**

- Press Rolls
- Centre Press Rolls
- Suction Rolls
- Conveyor Drive Pulleys
- Size press Rolls
- Guide Rolls
- Coating Rolls
- Pickle Line Rolls
- Multi nip, soft and super embossing rolls
- Reel Spools

## **USING ERAKOTE**

The Erakote systems work by applying highly reactive multiple-component polyurethane directly onto a rotating roll core to create a solid roll cover. Erakote rolls can be machined to the final size within hours of being cast and delivered within days instead of weeks. In some cases, the bearings from the roll journals do not have to be removed this creates both time and cost savings.

## **THE PRIMARY ADVANTAGES OF ROTATIONAL CASTING ARE:**

- ▶ **Shorter Production Times**  
No mould handling, pre-heating, pre baking of adhesives or post curing
- ▶ **Single Pass Method for Thick Coatings**  
Due to the high reactivity and specific flow properties, Erakote can be applied in a single pass of up to 40mm thick.



▶ **No Release Agent**

There are no moulds, so there are no bonding issues, as cores cannot be contaminated by release agent.

▶ **Effective Use of Material**

Rotational casting leads to minimal material wastage

▶ **Hardness Uniformity**

The process delivers a homogenous, self-curing polyurethane surface with superior mechanical properties

▶ **No Pre or Post-Curing**

Standard Erakote systems are processed at low temperatures. The majority of these can be produced with minimum energy consumption as the chemical reactions generate high heat during the molecular cross-linking, thus eliminating the need for artificial heat generation using ovens and reducing energy costs.

**ERAKOTE GRADES**

**Polyether**

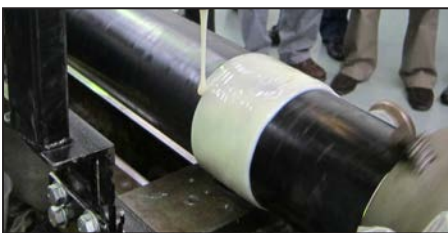
**Erakote EKF** is a Full Prepolymer range, the viscosity of this system is higher than the Erakote EKQ range making it suitable for smaller diameter rolls.

**Erakote EKQ** is a Quasi range, this is lower in viscosity than the Erakote EKF range so more suited to larger diameter rolls.

**Erakote EKQD** is a high hardness range from 50D – 70D

**Erakote EKL \*** is a new PPG version of the Erakote range currently in development.

**Polyester**



CURRENT ERAKOTE SYSTEMS				
EKF-2K	EKQ-2K	EKQ-3K	EKQD-3K	EKEQ-3K
				45A
				50A
	60A	60A		60A
	65A	65A		65A
	70A	70A		70A
	75A	75A		75A
80A	80A	80A		80A
85A	85A	85A		85A
90A	90A	90A		90A
95A	95A	95A	50D	95A
	60D		60D	
	65D		65D	
	70D		70D	
	85D			

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