

## AN INTRODUCTION TO THE CILBOND RANGE OF PRIMERS AND BONDING AGENTS

- Cilbond 10E** **Cilbond 10E** is a speciality one coat bonding agent for NBR, HNBR, XNBR, ACM, ECO and Vamac® G & D compounds. It offers excellent environmental and chemical resistance and has exceptional pre-bake resistance. **Cilbond 10E** finds extensive use in the manufacture of oil seals, gaskets, rollers and pipe coatings, including stators.
- Cilbond 10E** is also a high performance primer for **Cilbond** cover-coat bonding agents especially **Cilbond 55E** for applications such as roller production.
- Cilbond 12E** **Cilbond 12E** has exceptional environmental resistance properties to glycols, ester lubricants, brake fluids and solvents, especially at high temperatures. It is particularly effective with **Cilbond 80E**, though can be use with other cover-coats, including **Cilbond 55E**.
- The **Cilbond 12E/ Cilbond 80E** two-coat system exhibits excellent salt spray resistance.
- Cilbond 24** A one-component bonding system for a wide range of polymers including NR, SBR, CR, IR, BR, CSM, ACM, ECO and Vamac® G. **Cilbond 24** is also used for post vulcanisation bonding of rubbers to metal and each other.
- It is particularly suited to a broad range of NR/SBR compounds and exhibits excellent hot glycol resistance. Uses of **Cilbond 24** include automotive engine and suspension mounts, hydromounts, bushes, bridge bearings and rollers.
- Cilbond 33 A/B** A two-part, one-coat bonding system for fluoroelastomers (FKM's). Suitable for both magnesium oxide and lead monoxide cured systems, with the ability to withstand long, high temperature post-curing schedules. **Cilbond 33 A/B** is used to manufacture oil seals, shaft seals, gaskets, hoses, hose couplings & rollers.
- Cilbond 35** A one-coat bonding system for silicone elastomers, capable of withstanding long pre-bake and post-cure schedules. **Cilbond 35** is used to manufacture oil seals, shaft seals, hoses, rollers & gaskets.
- Cilbond 41** **Cilbond 41** is designed for bonding cold cure castable PU elastomers to concrete, steel, aluminium, brass, polar plastics and other substrates at ambient temperatures of 20°C or above.
- When used with **Cilcure B**, the environmental resistance is exceptional and this system also bonds to cured PU's and a range of elastomers including PVC, NR, CR, CSM, etc.
- Cilbond 41** is used to manufacture wheels, casters, rollers, coated pipes & dunnage. **Cilbond 41/ Cilcure B** is first choice for bonding rotationally cast very large rollers and pipe coatings and linings.
- Cilbond 45SF** **Cilbond 45SF** is a one-coat system for high performance bonding of thermoplastic and castable polyurethanes at temperatures of above 85°C.
- It has exceptional pre-bake resistance and is used to manufacture casters/wheels, rollers, coated pipes & dunnage. When used with aliphatic isocyanates, such as IPDI, bonds exhibit excellent UV resistance.

**CHEMICAL INNOVATIONS LIMITED**

217 Walton Summit Road, Walton Summit Centre,  
Bamber Bridge, Preston, PR5 8AQ, Lancashire, England.  
Telephone: 01772 322888 (UK only) +44 1772 322888 (International)  
Fax No: 01772 315853 Order Dept Fax No: 01772 311844  
Email: sales@polycil.co.uk Web Site: www.polycil.co.uk



- Cilbond 48**      **Cilbond 48** is a fast-drying one-component bonding agent for hot and cold-curing polyurethane systems and TPU systems. **Cilbond 48** is especially suited to dynamic applications, where hydrolytic and salt-spray resistance are important. **Cilbond 48** has excellent pre-bake resistance, although it is also effective without a pre-bake.
- Cilbond 49SF**      **Cilbond 49SF** is a one-coat bonding system for castable pre-polymer and quasi pre-polymer and thermoplastic polyurethanes above 70°C, where hydrolysis stability and chemical resistance are required.
- For improved environmental resistance (including bonds resistant to boiling water) use with **Cilcure B** at a ratio of 100 : 10 (Cilbond 49SF : Cilcure B).
- Cilbond 55E**      **Cilbond 55E** is a general-purpose cover-coat bonding agent for a wide range of rubber compounds. It has been formulated to be particularly effective with the Cilbond 10E primer, but is also compatible with the water-based primer, Cilbond 62W.
- Rubber-metal components produced using **Cilbond 10E** and **Cilbond 55E** will survive dynamic and static fatigue at temperatures up to 170°C.
- Cilbond 62W (WATER-BASED)**      **Cilbond 62W** is established as a high performance brake pad adhesive, suitable for OEM products and passes 300°C shear tests and Alpine Decent tests.
- It is also used as a one-coat bonding agent for NBR, XNBR, HNBR, ACM, ECO and Vamac<sup>®</sup> compounds, to metals and engineering plastic substrates.
- Cilbond 62W** is an effective salt-spray resistant primer under cover coats such as **Cilbond 80E**.
- Cilbond 65W (WATER-BASED)**      **Cilbond 65W** is a one-coat bonding agent for peroxide cured elastomers such as VMQ, ACM, Vamac<sup>®</sup> D and some HNBR compounds. It forms tough tack-free coatings and requires no pre-bake for conventional compression and transfer moulding. It has an excellent pre-bake and post-cure resistance.
- When used over **Cilbond 12E** primer, the system bonds the most difficult to bond compounds and exhibits exceptional heat resistance to 200°C.
- Cilbond 80E**      **Cilbond 80E** is high-performance cover-coat bonding agent capable of bonding a wide range of rubber compounds.
- Cilbond 80E** is generally used with the **Cilbond 12E** primer to give the ultimate environmental resistance to hot oils and fluids. This system is used to produce components in demanding environments such as suspension mounts (including hydromounts), TVD's and stators.
- On its own, **Cilbond 80E** is used as a splicing cement to bond cured and uncured rubbers to each other and themselves and is an excellent rubber to fabric bonding system. **Cilbond 80E** confers good resistance to hot water, salt spray and chemical environments.
- Cilbond 89E**      **Cilbond 89E** is a highly versatile speciality one-coat bonding agent, which works equally well at low and high temperatures. It is capable of bonding NR, SBR, CR, CSM, ECO, CPE, ACM, NBR, XNBR, HNBR, IR, IIR, EPDM and castable and millable PU.