

# CyanZeal 558

One Component Polyurethane Elastic Adhesive/Sealant



## PRODUCT DESCRIPTION

CS (45) is a one-part, high viscous, moisture curing Polyurethane Adhesive/Sealant. Characterised by a high thixotropy it is ideal for all kinds of applications where a good initial grab (green strength) is required in order to keep in place the parts to be bonded, such as application in vertical. Once extruded it cures by reaction to the atmospheric moisture to form a high performance, permanently flexible elastic adhesive.

## MAIN FEATURES AND ADVANTAGES

Permanent flexibility ■ No change in volume – No shrinkage ■ Very fast cure rate ■ Bonds and seals at the same time  
Adhesion to a wide range of substrates ■ Excellent adhesion on all cement based materials, ceramics, glass, metals, wood  
Non-sag consistency - Exceptional thixotropy ■ Increase torsional stiffness of final assembly ■ Vibration and sound damping properties ■ Excellent resistance to aging, weathering – suitable for indoor and outdoor ■ Over-paintable with man water, solvent based paints (preliminary tests recommended) ■ Non corrosive ■ High durability

## AREAS OF APPLICATION

CS (45) is suitable for elastic joints that will be subjected to dynamic stresses within the following related industries: automotive/car industry for repair and refinishing purposes, general coach-building, caravans & motor-homes assembly and repairs. Bus and truck industries, container construction, including pipe-work and fittings, refrigeration, air-conditioning, thermal and acoustic insulation technology, general fabrication and assembly. Suitable substrate materials are timber, metals, particularly aluminium (including anodised components), sheet steel (including phosphate, chromate and zinc-plated components), metal primers and paint coatings (two-part systems), ceramic materials and plastics. For elastic bonding to untreated metals and plastics the use of Primers is recommended.

## EXAMPLE OF APPLICATIONS ARE

Bonding of floors (plywood, wood and metal) to sub-floor or metallic frame ■ Bonding of all exterior or interior panels, walls, sheets to corners or tubular frames ■ Bonding of FRP roofs (vans, cabins) ■ Bonding of sandwich panels and walls ■ Sealing, especially for large dimension joints

## CHEMICAL RESISTANCE

Long term resistance to fresh water, seawater, limewater, diluted acids and aqueous cleaners. Short term resistance to Petrol, grease and mineral oil. Not resistant to organic acids, concentrated mineral acids, caustic solutions or solvents. This information is offered for general guidance only. Advice for specific applications will be issued after consultation.

## SURFACE PREPARATION

Surface must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper, hard brush. Clean surface with a solvent, like acetone, if the substrate can stand it.

## PRIMING

Pre-test substrates for adhesion. Cleaners and/or primers may be required to achieve optimal adhesion. As a rule, substrates must be prepared in accordance with Adeseal instructions; specific guidance regarding adhesion on specific surfaces may be obtained by submitting substrate samples for analysis to our Laboratories.

## TOOLING AND FINISHING

Tooling and finishing must be carried out within the tack-free time of the sealant.

## REMOVAL

Uncured product can be removed with a white spirit or another suitable solvent. Once cured, the material can only be removed mechanically.

## **OVER-PAINTING**

In general, it can be over-painted. The paint must be tested for compatibility by carrying out preliminary tests. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and modify the drying time of the paint itself. It should be understood that the hardness and rigidity of the paint film may impair the elasticity of the sealant and lead to cracking of the paint film.

## **APPLICATION**

Pierce through the protective membrane in the front threaded section. Screw on the plastic nozzle and cut it at an angle according to the desired bead thickness & profile. Fit the cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and apply material carefully preventing air entrapment. Once opened, packs should be used up within a relatively short time. Do not apply at temperatures below 5°C or above 40°C. The optimum operating temperature for both substrate and sealant is between 15°C and 25°C

## **GENERAL INFORMATION**

The information contained in this technical data sheet is to the best of our knowledge correct. However, by no means can it be considered a guarantee, as usage, working area and application of the product in accordance with the instructions given and their success in application is beyond our control and is dependent on a number of factors. We decline any responsibility for the improper use of the product as the application recommendations contained herein are to be considered as a general guideline. If at all in doubt, preliminary tests should be carried out. We reserve the right to modify and up-date said data sheets without prior notice. Clients are kindly requested to verify that they are in possession of the current edition.