

# RAPID CURING DEVICE



Patented process



3 hours normal conditions



3 hours with Thermoreactor

## A FAST AND SAFE CURING PROCESS FOR SEALANTS, PAINTS AND COMPOSITES.

The SUNAERO RAPID CURING DEVICE is the most compact SUNAERO 28Vdc Thermoreactor system. Very easy to transport, to implement and to use, it is the reference device for emergency repairs in AOG situations.

The touch-sensitive screen displays information at real time allowing the operator to control the operation in progress.

All the required devices are stored inside two sturdy and waterproof cases:

- The 1st case contains the control system
- The 2nd case is for accessories and one 28Vdc Thermoreactor

Both can be carried on-board commercial flights.

## Benefits

- ⊕ Polymerization time reduced:  
**10 to 12 times for sealant**  
**30 to 40 times for paint**
- ⊕ Optimized curing quality with no bubbling
- ⊕ Easy to carry (handle, wheels).
- ⊕ User friendly: touch-sensitive screen
- ⊕ 28 Vdc Thermoreactor approved for use inside fuel tanks
- ⊕ Certified for operation in hazardous areas
- ⊕ Matching the needs of military aircraft flight ops
- ⊕ Can be used for indoor or outdoor operation.



# RAPID CURING DEVICE



## Operation Principle

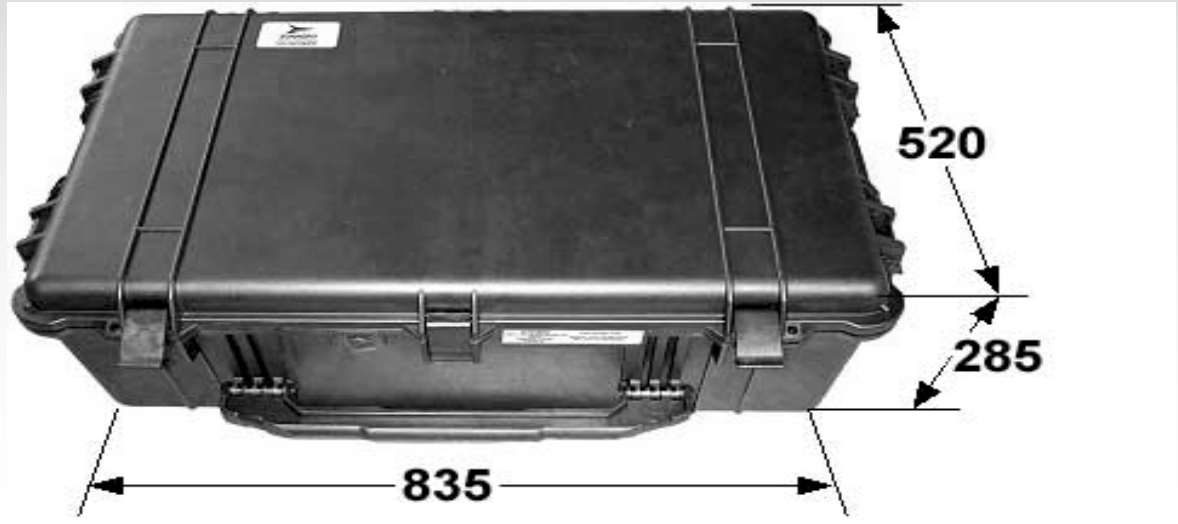


New Repair Sealant

Inside fuel tank

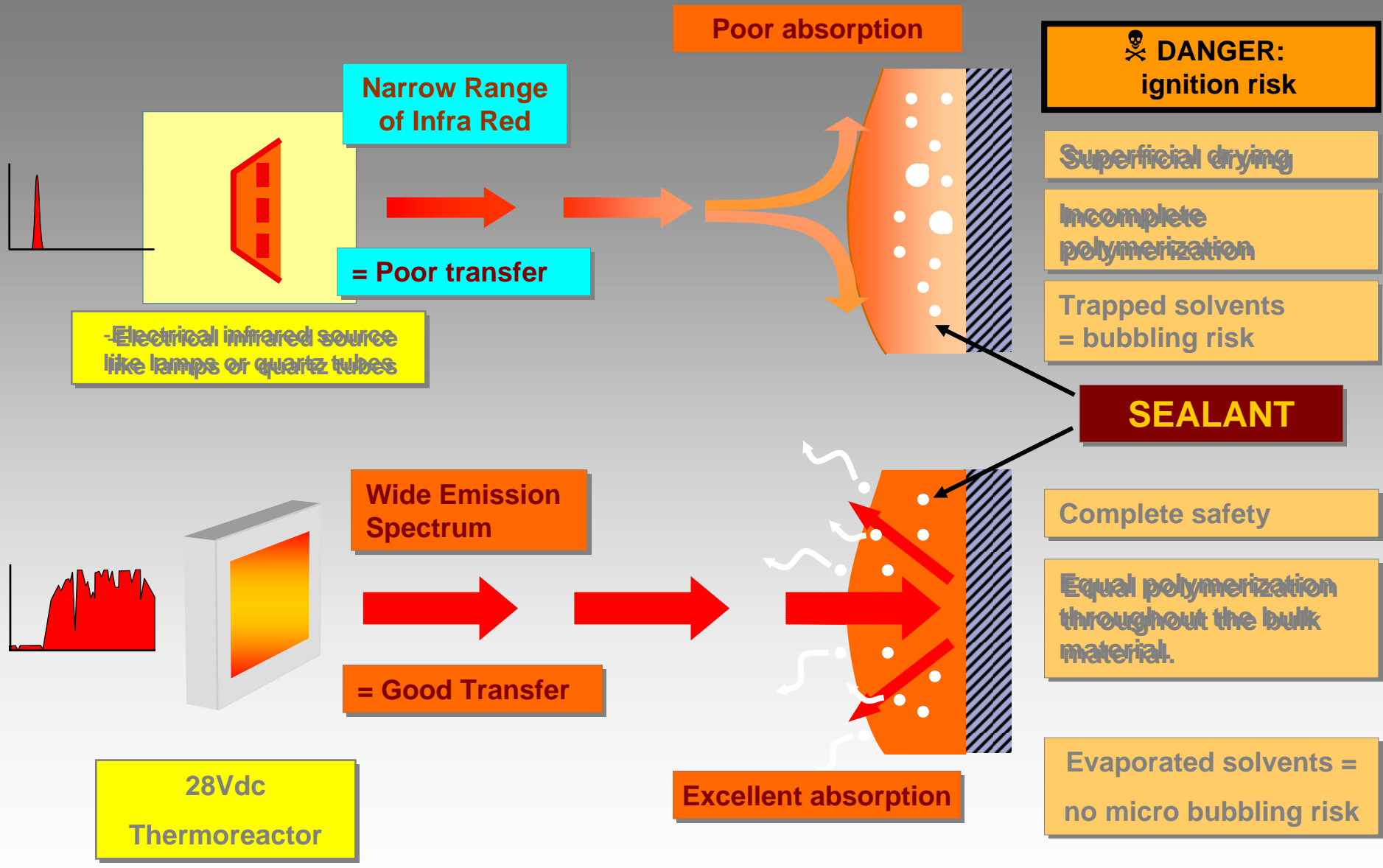
Temperature Information

## Dimensions

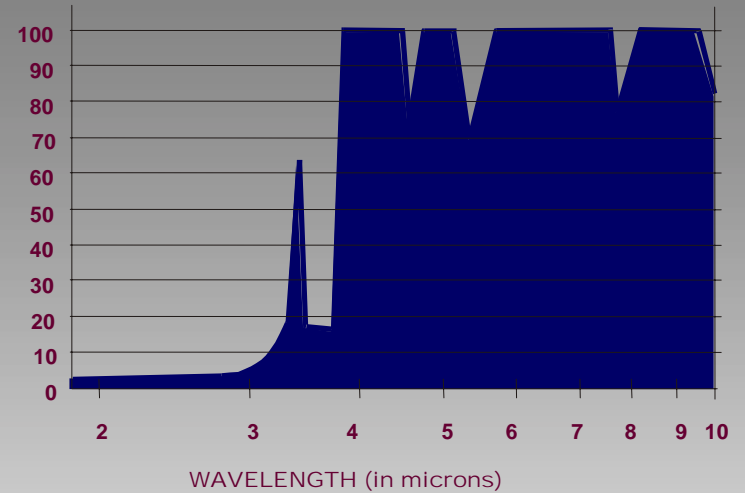


**Portable Case**  
**Dimensions**  
33" Long  
21" Deep  
11" High  
**Weight – Approx.**  
**60lbs.**

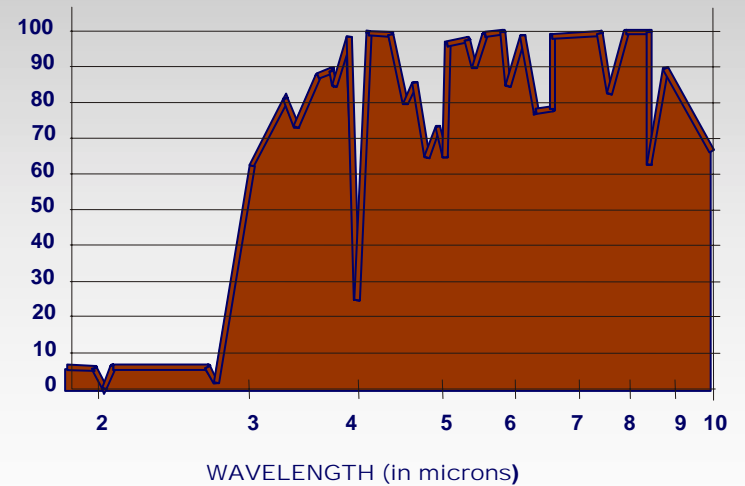
# RAPID CURING DEVICE



## ABSORPTION SPECTRUM OF PAINT AND SEALANTS

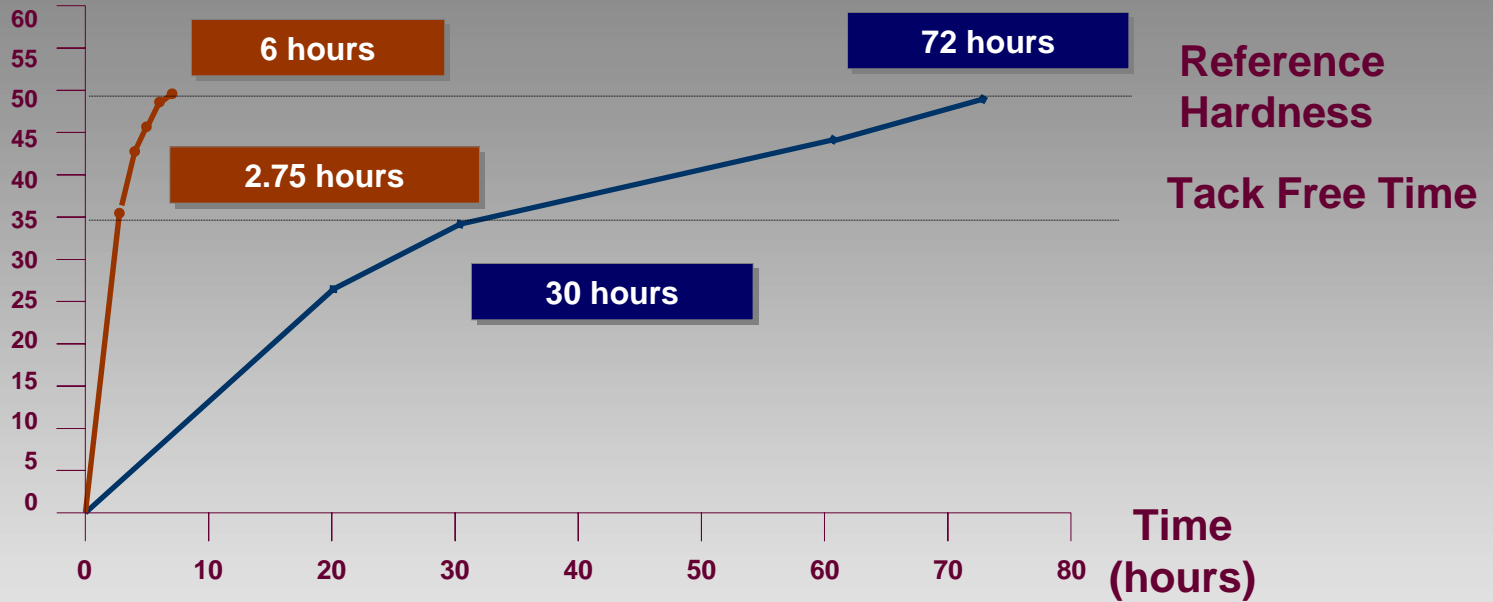


## EMISSION SPECTRUM OF THE 28 Vdc THERMOREACTOR



# RAPID CURING DEVICE

## Hardness Scale

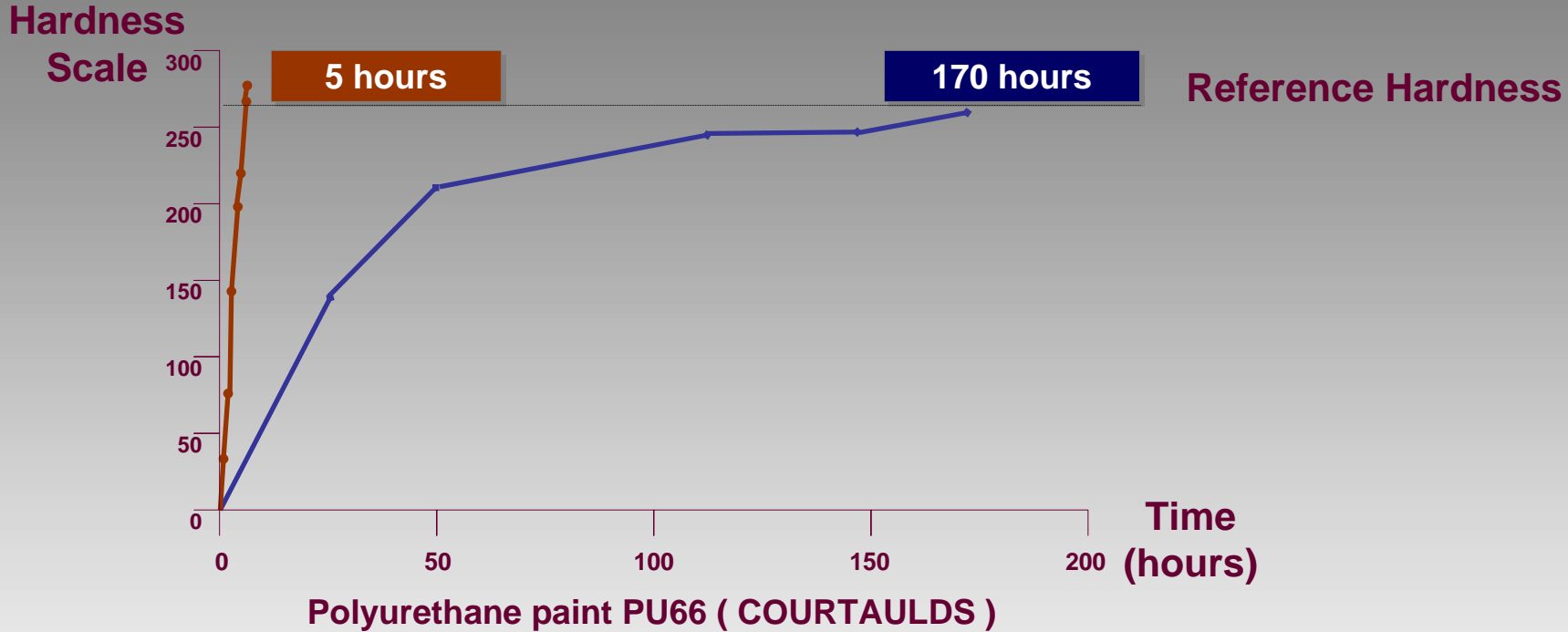


Sealant PR 1422 B2 NA  
(fuel leak repair)

With the 28 Vdc Thermoreactor at 122°F

Usual temperature and hygrometry  
conditions ( 73.4°F 50% )

# RAPID CURING DEVICE



With the 28 Vdc Thermoreactor at 122°F

Usual temperature and hygrometry conditions ( 73.4°F 50% )

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## **REFERENCES: COMMERCIAL AIRLINES**



**DELTA – UNITED – AA – US AIRWAYS  
AIR CANADA – AEROMEXICO  
CANADIAN REGIONAL – HORIZON**

**LUFTHANSA – AIR FRANCE  
BRITISH AIRWAYS – SCANDINAVIAN  
SABENA TECHNIC – TAP – CITY LINE  
SOGERMA**

**AIR AFRIQUE – EGYPT AIR – EMIRATES  
JAREMCO – GAMCO – CHINA AIRLINE  
CATHAY – AIR CHINA – THAI AIRWAYS  
SINGAPOUR AIRLINES – QUANTAS –  
KOREAN**

## **REFERENCES : AIRCRAFT MANUFACTURERS**



**BOEING SEATTLE – BOEING, ST. LOUIS –  
NORTHROP GRUMMAN – GULFSTREAM-  
CESSNA - BELL**

**BOMBARDIER  
EMBRAER  
EADS – AIRBUS  
DASSAULT AVIATION  
EUROCOPTER**

**USAF: TINKER – HILL – ROBINS**

**Helitest**

**Reference – T.O. 1C-135-2-5-2**

**US NAVY:**

**NAS JACKSONVILLE DEPOT**

**FRENCH AIR FORCE**

**FRENCH NAVY**

**GERMAN AIR FORCE**

**ITALIAN AIR FORCE**

**ROYAL AUSTRALIAN AIR FORCE**