

# SONATHERM<sup>®</sup>



**THERMAL** *insulation*

**OSCAR**

# Sona



# therm<sup>®</sup> *the economical*

## *solution for thermal ceiling and wall coating.*



In modern buildings the demands made for comfortable living conditions and lower fuel costs are ever increasing. Developed for the European market, Sonatherm\* has achieved spectacular results in thermal insulation and noise absorption.

### **Thermal insulation**

Sonatherm® is a seamless, decorative ceiling and wall finish that can be applied to any surface or construction. Sonatherm® consists of panels of polystyrene oversprayed with SonaSpray™ K-I3 to achieve a safe fire rating and attractive finish.

By varying the thickness of the polystyrene slab all permutations of thermal insulation are achieved.

### **Acoustic lining**

The exceptional noise absorption quality of SonaSpray™ offers buildings, e.g. basement parking, an acoustic comfort that must be experienced to be appreciated. Cutting noise pollution for surrounding areas with an environmentally friendly, recycled product is a truly worthwhile benefit.



### **Noise absorption**

		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	N R C
<b>K-13 standard</b>	20mm	0.06	0.19	0.55	0.89	0.91	0.93	<b>0.65</b>
<b>K-13 Special</b>	20mm	0.18	0.27	0.67	1.02	1.11	1.12	<b>0.75</b>
<b>SonaSpray™ FC</b>	15mm	0.16	0.22	0.57	0.96	1.09	1.12	<b>0.70</b>

Extracts from Data Sheets

### **Fire Test**

**Composite polystyrene and SonaSpray™ K-I3 is certified Class 1 to BS 476 Part 7 and Class 0 to BS 476 Part 6.**

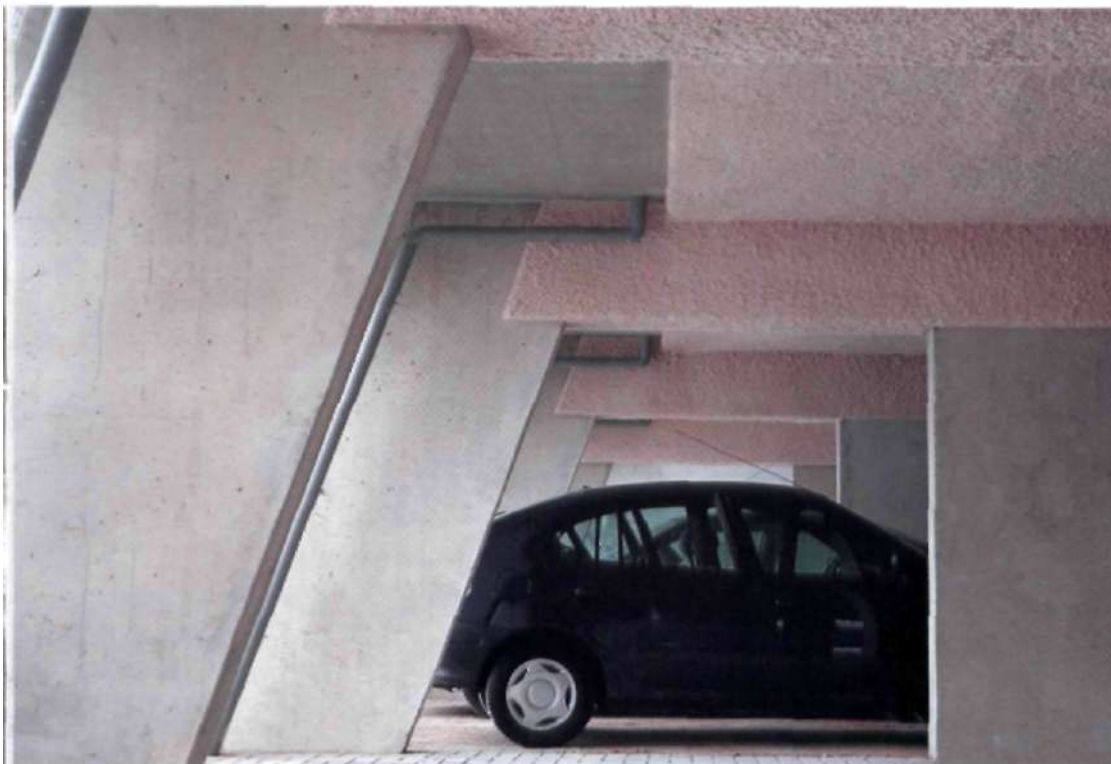
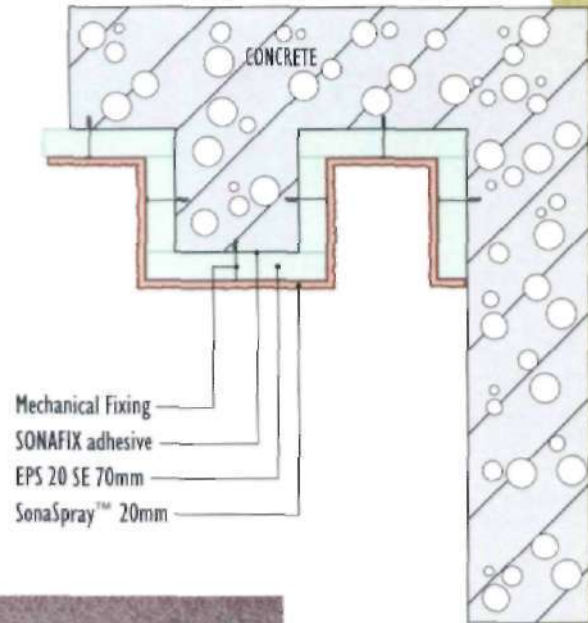
## Sonatherm® 70/20-construction

### Application

The polystyrene slabs are fixed with adhesive and mechanical fixings to the substrate; this procedure is quick. Spraying the surface with SonaSpray™ which then follows, is even quicker! allowing us to offer very economical solutions and added value to the building.

### Refurbishing

Insulation coatings which are old and no longer considered effective, or harbour health concerns, can be refreshed and their insulating properties upgraded to meet today's requirements with a spray-on layer of SonaSpray™



### Thermal insulation - Typical calculation

#### ADDED INSULATION TO A CONCRETE SOFFIT

##### Typical 'R' Values

Internal surface	0.14
50mm screed	0.03
50mm conc. slab	0.10
external surface	0.04

R=0.31

U=3.23 W/m<sup>2</sup>k

##### + SONATHERM

70mm EPS 20 SE	1.94
20mm SonaSpray	0.62

R=2.87

U=0.35 W/m<sup>2</sup>k

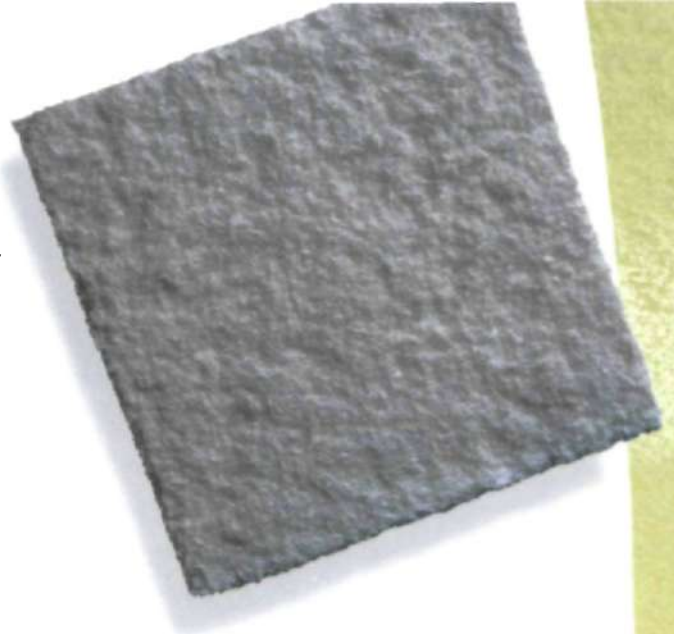
## Optical qualities and colours

There is a choice of finish for the sprayed-on layer

- **SonaSpray™ K-13 standard** - coarse
- **SonaSpray™ K-13 special** - fine
- **SonaSpray™ FC** - very fine and luxurious

K-13 is available in the colours: light grey, beige, off white and black.

SonaSpray™ FC is available in white as standard; any colour is possible if the size of the project warrants this option.



## Other applications

Sonatherm® can also be used for the soffits of walkways and underpasses, the underside of balconies and cantilever buildings. In any area where it is protected from direct rain architects can employ the insulating and acoustic properties of Sonatherm® to the full - even on domes and vaulted soffits.

## The advantages summarised:

- Finish** - decorative and seamless sprayed coating
- Colour** - virtually unlimited
- Thermal insulation** - made-to-measure
- Acoustic performance** - pleasant, non-reverberant atmosphere
- Fire rating** - Class 1 to BS 476 Part 7  
Class 0 to BS 476 Part 6
- Time saving** - fast installation in one single spray coating
- Environmentally friendly** - cellulose fibres, fully recyclable, low embodied energy, low CO<sub>2</sub>
- Price** - the friendliest in price



***Ground Floor parking  
in domestic buildings***



***Balconies  
and  
overhangs***



***Basement parking in  
commercial buildings***

Sonatherm\* is being used more and more for insulating external soffits of modern buildings. We are very proud that many architects already prefer our product.

Please contact our Sales Department, or visit our web site, for further information on our acoustic products, which include:

- **SonaSpray™ F** - smooth, spray-on, acoustic treatment
- **SonaCel** - high performance acoustic partition system
- **Celbar™** - acoustic and thermal cavity filler

**OSCAR**  
**ACOUSTICS**

**A DIVISION OF OSCAR ENGINEERING LTD**

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European distributor - **Asona Nederland bv**

**SonaSpray™** is manufactured by International Cellulose Corporation, Houston, Texas