



JOTUN

No.1 in Paints

جوتاشیلڈ

JOTASHIELD

extreme

2x Heat Reflective

Superior Exterior Protection



JOTASHIELD EXTREME

THE DURABLE PAINT FOR THE EXTREMELY HARSH ARID CLIMATE!

Introducing Jotashield Extreme, the next generation of exterior paints.

Jotashield Extreme has been developed using cutting edge technology that surpasses stringent internal and external requirements to deliver outstanding durability, colour protection, and heat reflection.

A graphic logo featuring a large, glowing orange and red '2x' inside a circular sunburst, followed by the words 'Heat Reflective' in a bold, italicized, black font with a white outline, set against a blue, wavy banner background.

2X HEAT REFLECTIVE

It's a fact that all the exterior walls of your home absorb the heat from the sun. The heat is absorbed in the form of infrared rays from sunlight.

This leads to a warmer interior, higher cooling costs and faster paint deterioration.

Jotashield Extreme comes with the revolutionary, 2X Heat Reflective feature. Jotashield Extreme colours reflect up to twice the amount of heat away from your walls compared to standard paints.

The secret lies in Jotun's ground breaking pigment technology which utilises infrared reflective pigment.

Now all your colours can become 'cool' colours.



Buildings painted with Standard Paints remain hotter

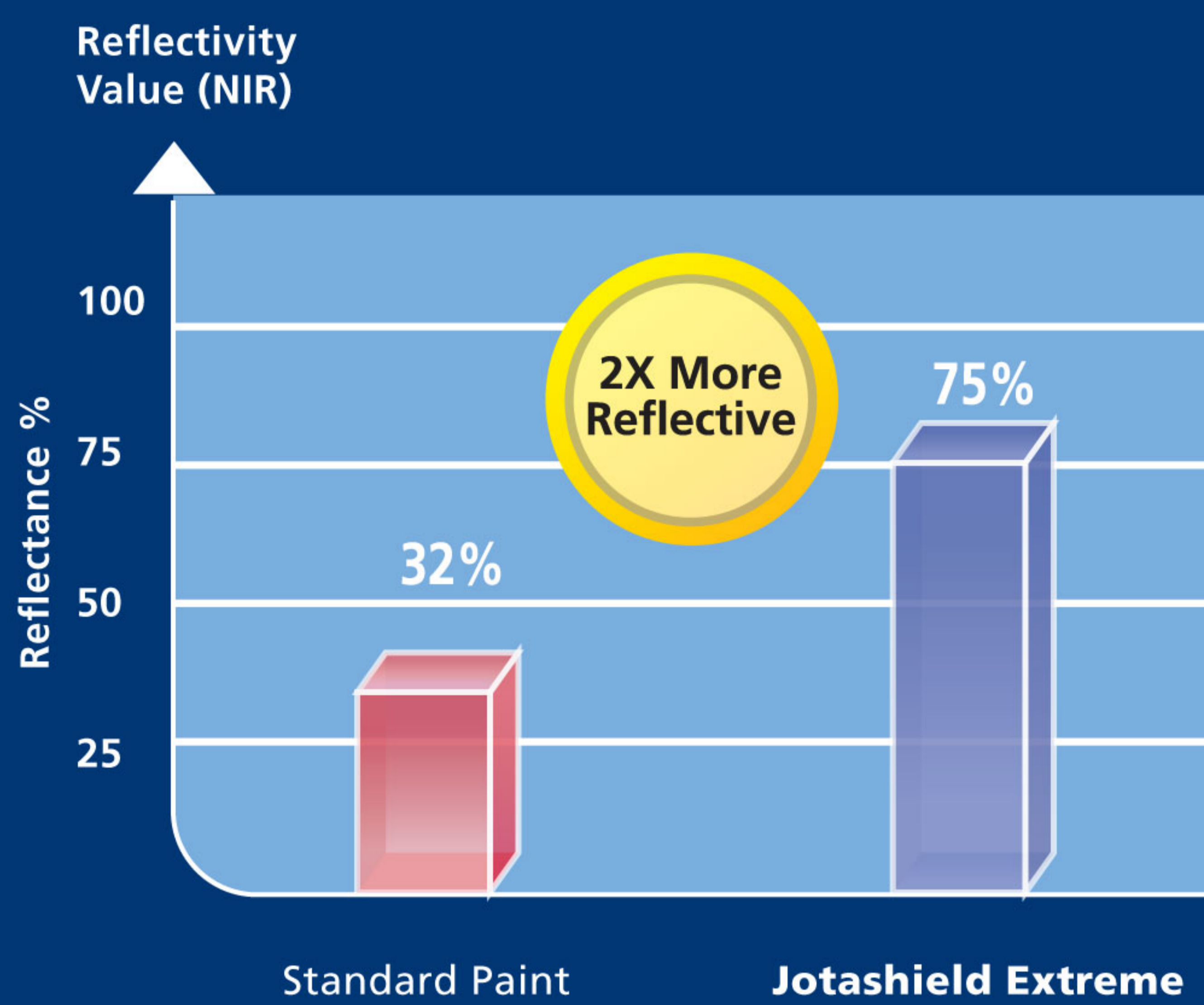


Buildings painted with Jotashield Extreme have cooler interiors

Benefits of 2x Heat Reflective colours include:

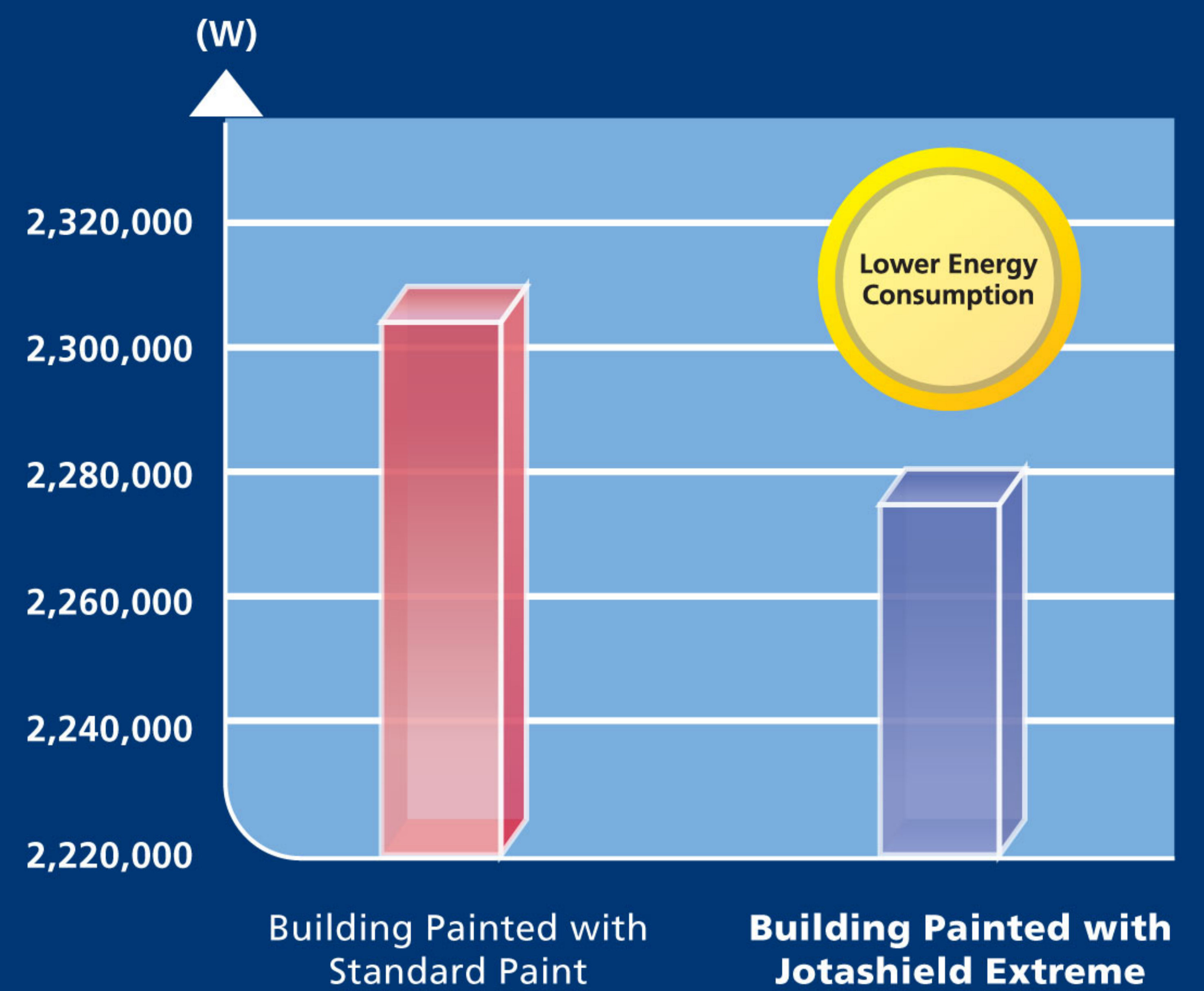
- Excellent indoor thermal comfort
- Lower energy consumption used for keeping buildings cool
- Longer lasting colours
- Reducing the Urban Heat Island Effect (UHI)

Reflective value of standard paint compared to Jotashield Extreme



The chart shows the amount of Near Infrared (NIR) reflected by a standard paint system compared to a Jotashield Extreme sample painted on a test wall

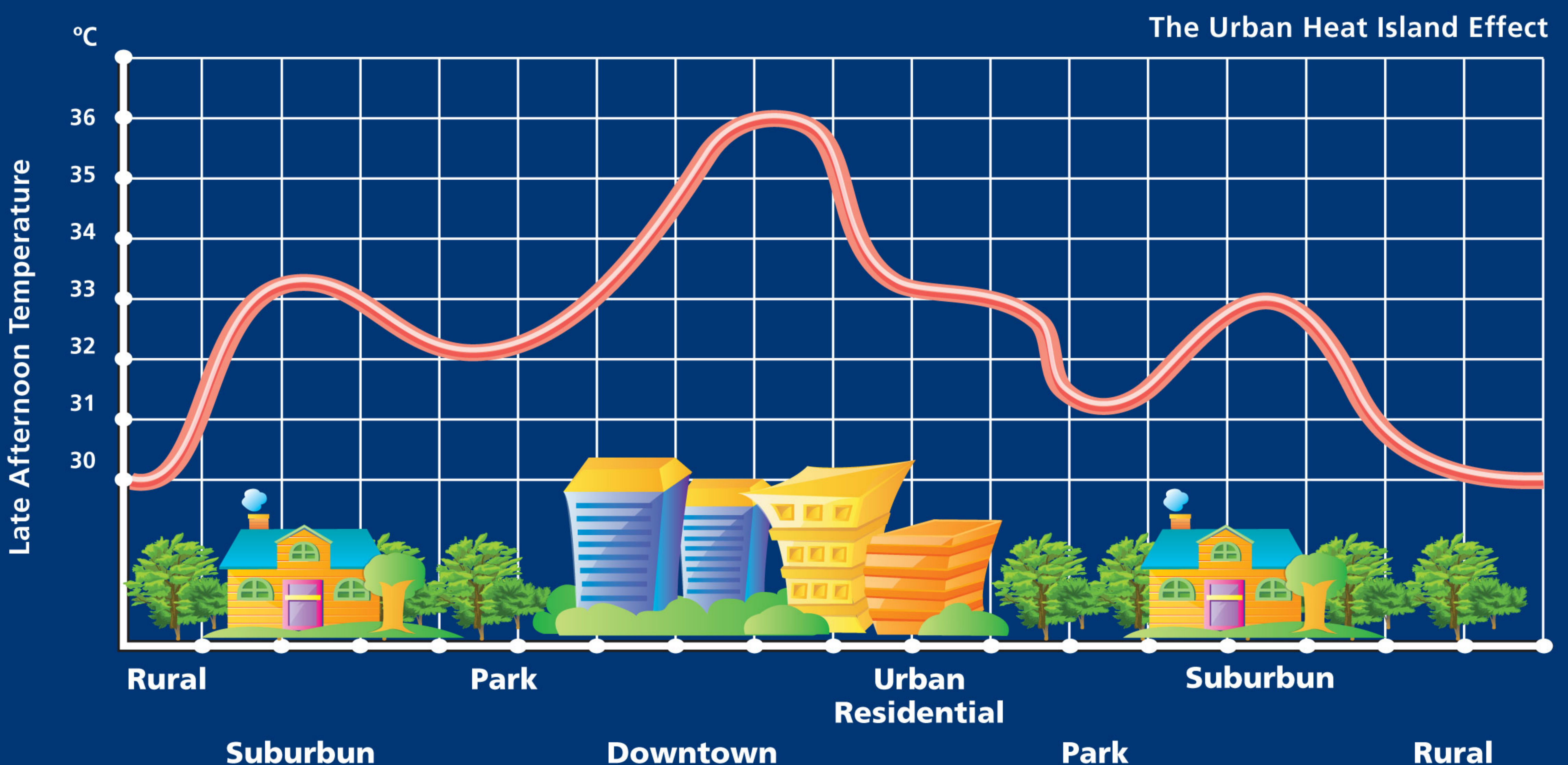
Amount of energy required to cool building facing west (Wh)



The energy saved is enough to power 1,380 (18 Watt) energy saving lamps for 1 hour

Source: Independent Test conducted by Building System and Diagnostic Pte. Ltd., Singapore

Urban areas are hotter than rural areas. This phenomenon is known as the "Urban Heat Island Effect". This is mainly caused by buildings and infrastructure absorbing more heat from the sun compared to forested areas.



By painting buildings with Jotashield Extreme, the higher reflectivity will help reduce the effects of the Urban Heat Island. This in turn reduces energy consumption used for cooling buildings leading to lowering the pollution caused by electricity generation.



Resistance To Cracking,
Flaking And Chalking

10 YEARS PERFORMANCE

Exterior protection will never be the same again! Jotashield Extreme's unique 100% Extreme Acrylic formula delivers a stronger paint with unparalleled resistance to cracking, flaking and chalking.

Jotun's innovative R & D and our unwavering policy on quality ensures that we use the highest grade ingredients in Jotashield Extreme's formula. It is optimised to withstand even the hardest arid climates.

Rest assured with our 10 Year Performance warranty on Jotashield Extreme.



2X UV PROTECTED COLOURS

Jotashield Extreme offers the longest lasting and most fade-resistant colours in the exterior paint category. Our 2X UV Protected Colours ensure that your exterior walls will retain that "I got it painted yesterday" look for many years to come.

The 2X UV Protected Colours featured in Jotashield Extreme are ultraviolet (UV) resistant due to Jotun's advanced Pigment Technology.



LOW DIRT PICK UP

Jotashield Extreme's advanced formulation forms an extra durable and water resistant paint surface. Surfaces remain cleaner and brighter all the time.



ANTI CARBONATION

Jotashield Extreme prevents concrete corrosion by preventing the reaction of CO₂ from the atmosphere with mineral salts found in Concrete.



SUSTAINABILITY

Jotashield Extreme addresses environmental issues such as rising energy costs, global warming and effective heat management.

Lowering energy used for internal cooling means less power usage.

Jotashield Extreme is non-hazardous and is 100% free from heavy metals such as lead, mercury, chromium and cadmium.

In addition, it has a low VOC (Volatile Organic Content) count. High VOC count is both unhealthy and contributes to global warming.

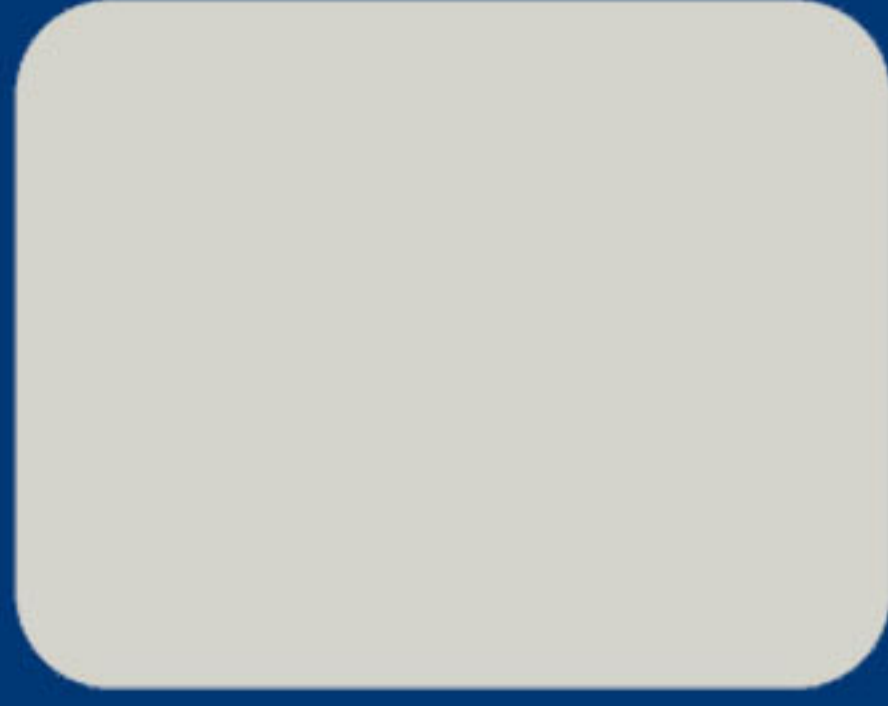


MULTICOLOR TINTABLE

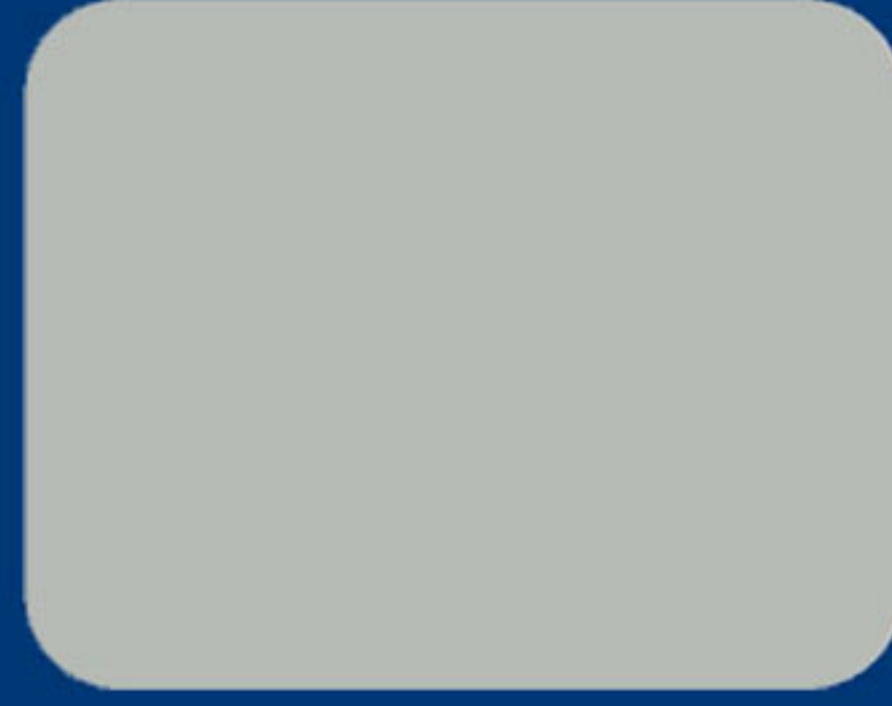
Jotashield Extreme is formulated to be multicolor tintable. With a wide choice of colours to choose from, our customers enjoy the outstanding durability of Jotashield Extreme without compromising on choice of colours.

Jotun is the pioneer in Multicolor tinting technology and has more than 30 years experience in this field.

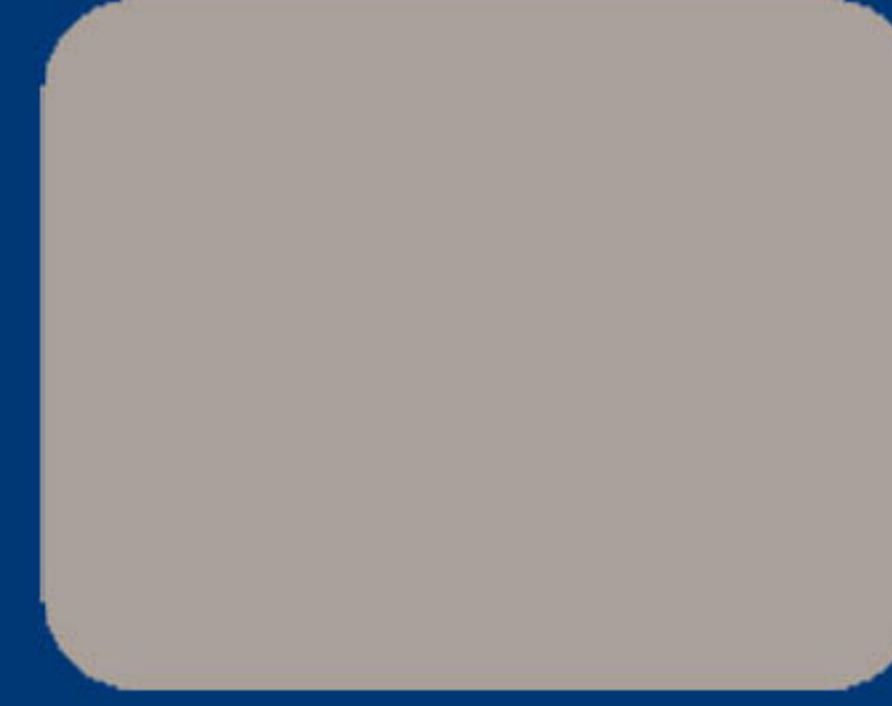
ATLANTIC DREAM



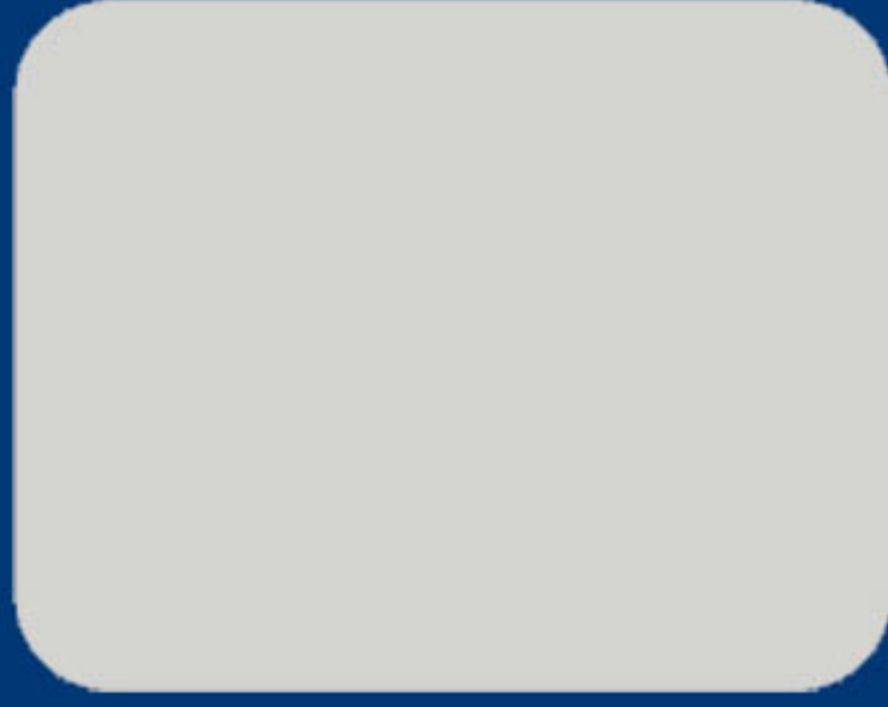
Pearl 121



Sensual Touch 767



Bismarck 2108



Silver Cloud 2098



Zen Grey 4066



Dove Grey 117



Sage Green 6013



Pale Teal 5043



Cerulean 576



Pacifica 5039



Aquamarine Blue 5018



Coastal Wave 5041



Sea Spray 6024



Sirrocco 5011



Celestial 4069



Calm and cool, the blues of **Atlantic Dream** slowly draw you into the mysterious serenity of the sea. Let the different shades of the ocean excite and tempt you.



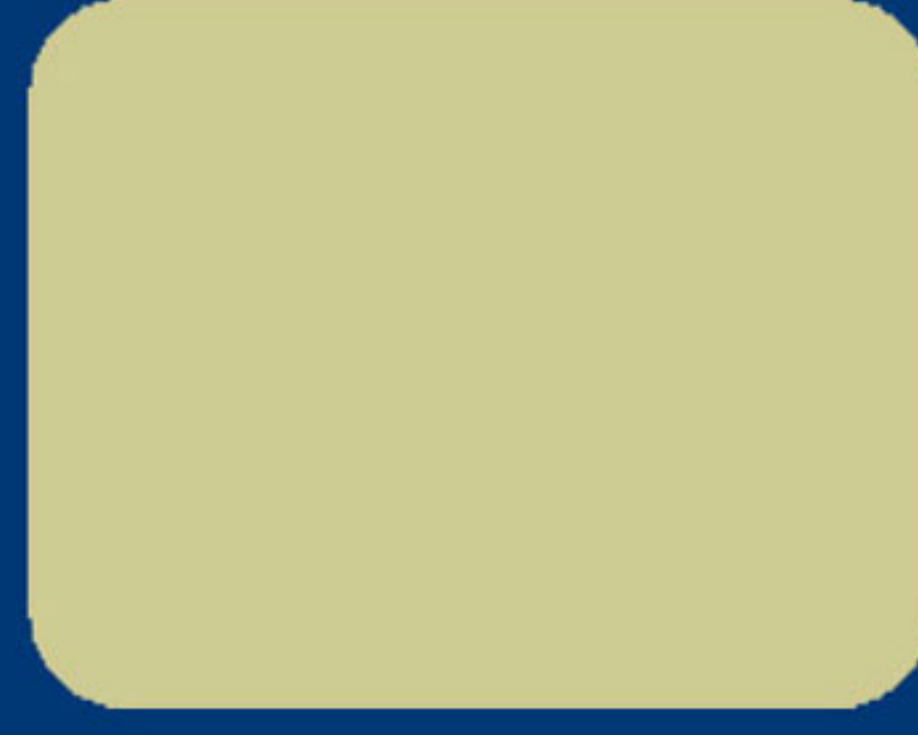
TROPICAL GARDENS



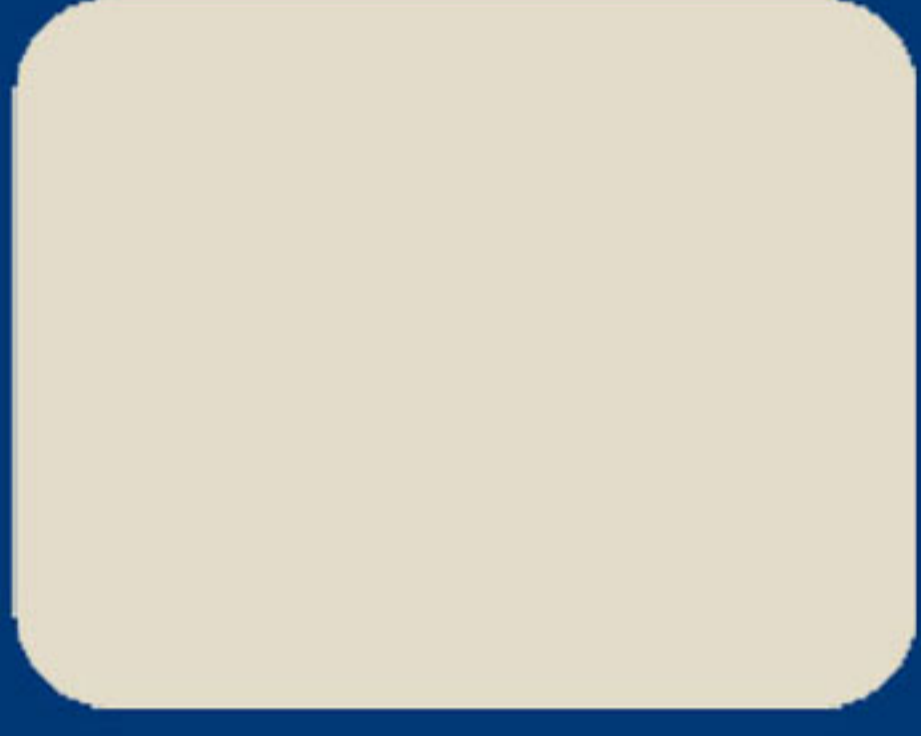
Fresh Hay 8042



Khaki 7039



Cedar 8014



Lotus Root 1108



Casablanca Clay 565



Mediterranean Olive 1109



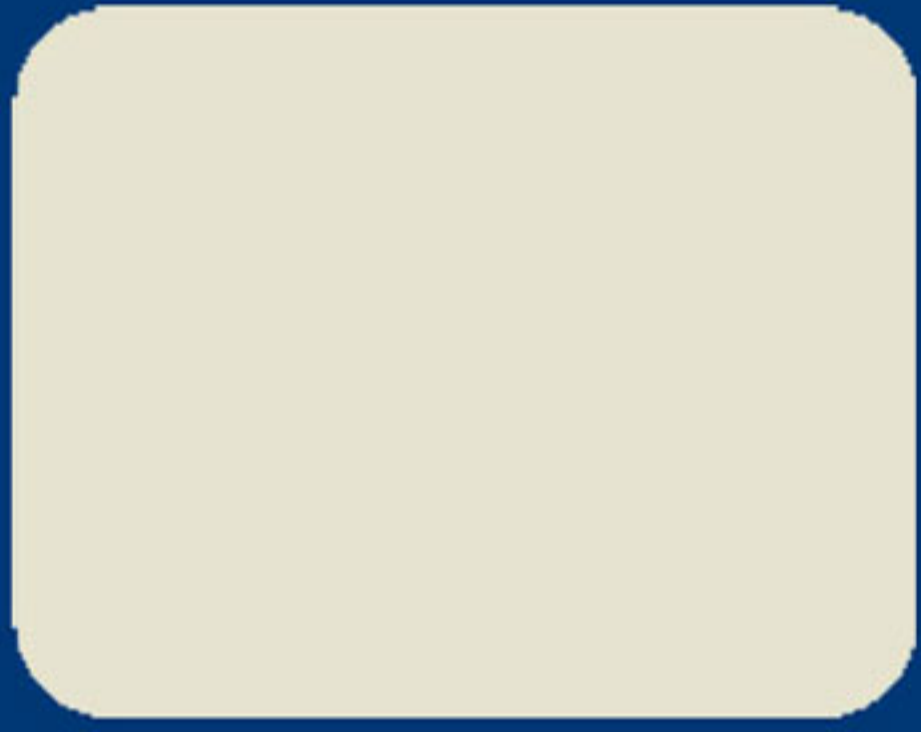
Parchment 1129



Antique Bronze 8045



Grove 8050



Modern White 8018



Autumn Green 700



Rainforest 561



Dusk Green 7038



Cypress 7040



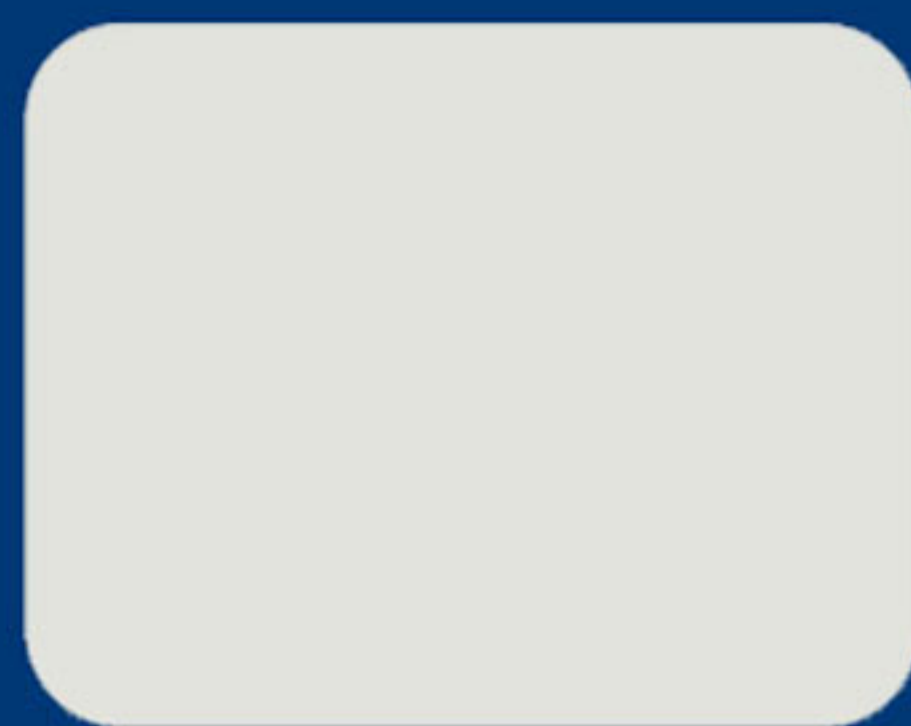
Spruce 7041

She becomes a part of us, as much as we are a part of it. The natural, vivid vibrancy of Mother Nature has never been more brought to life than with this selection of fine colours from **Tropical Gardens**.

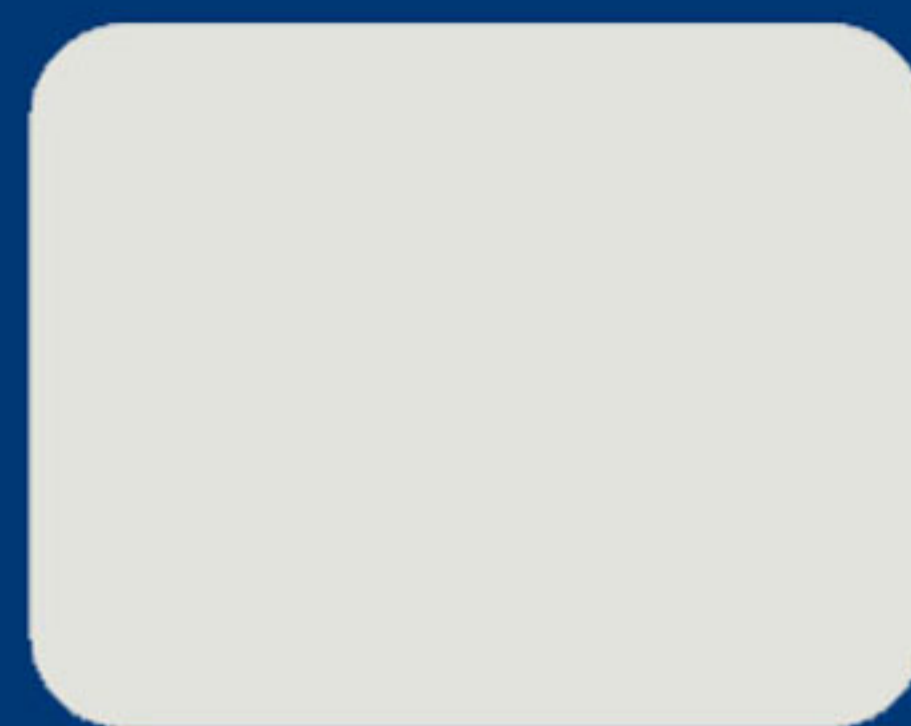


URBAN DIVIDE

From the modern colours of the city to the charming tones of the suburbs, the **Urban Divide** is both elegant and tough. Be inspired... think future design.



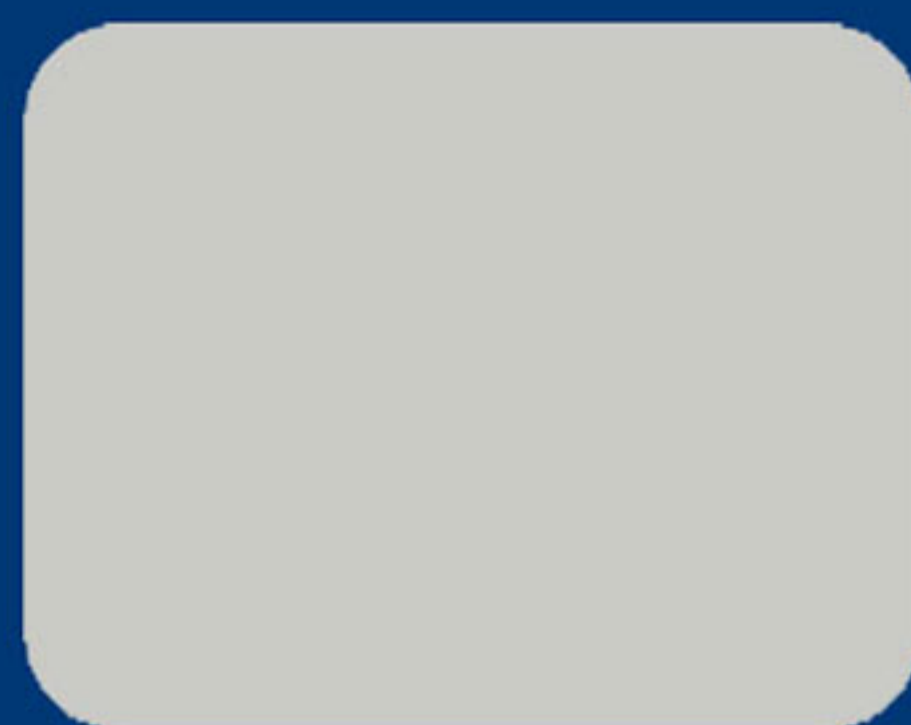
Minimalist 1072



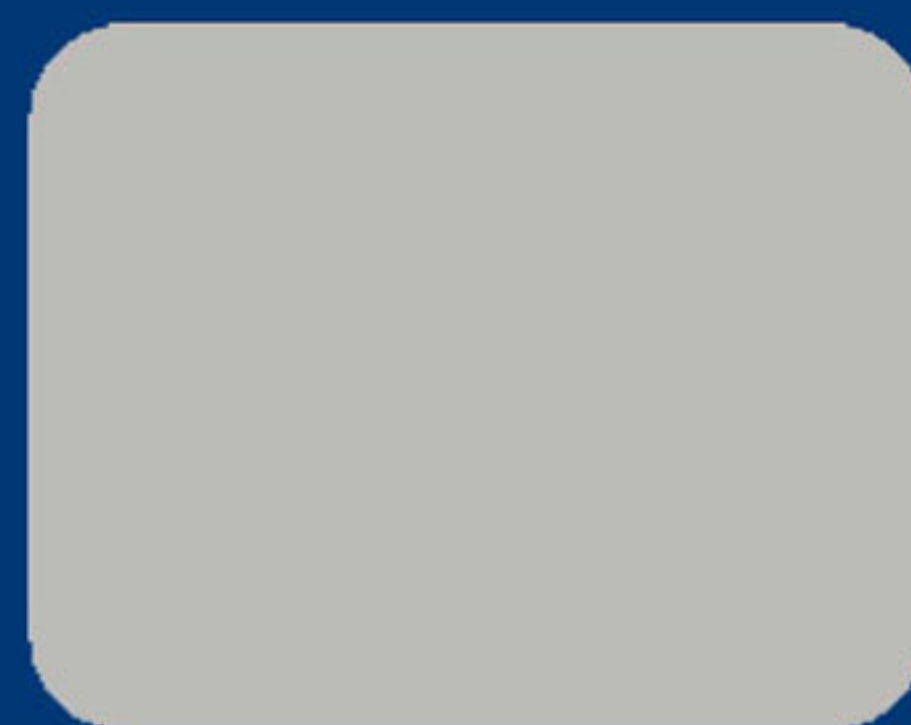
Grey Event 9912



Matrix 9913



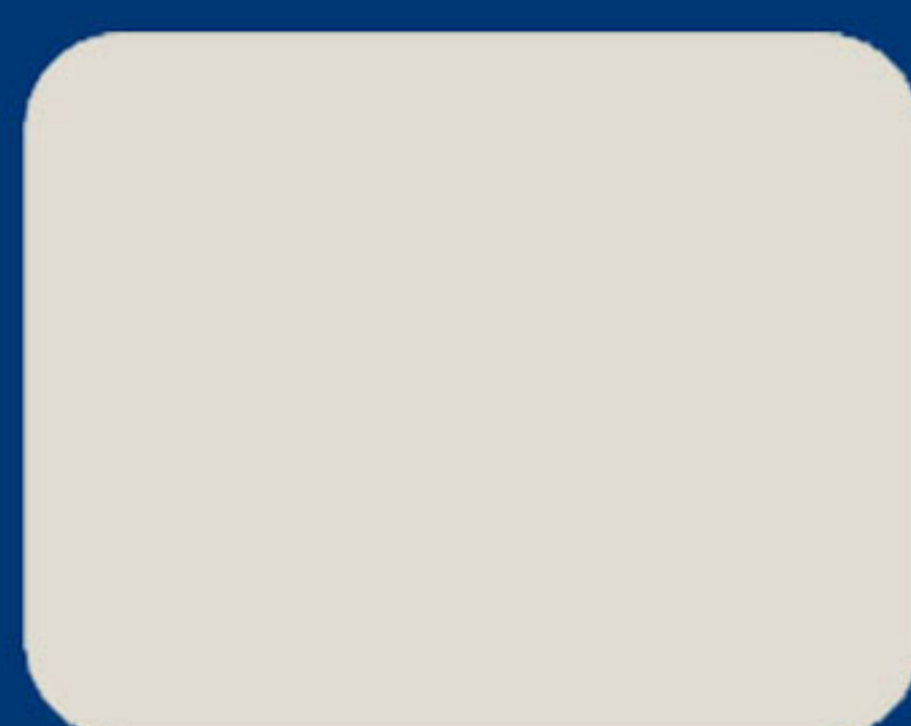
Empire 520



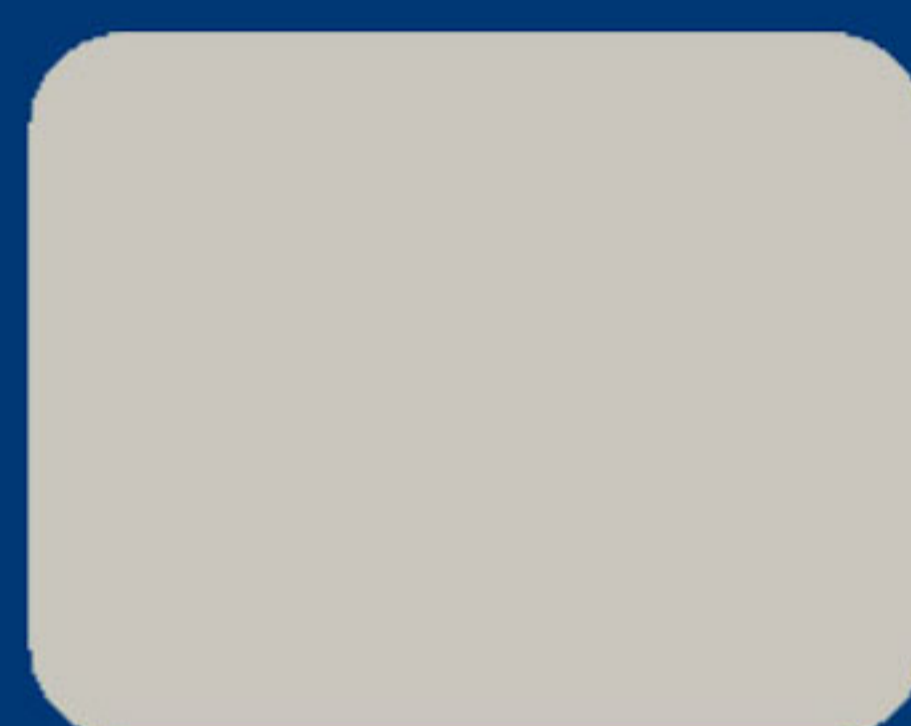
Platinum 9911



Fresh Concrete 556



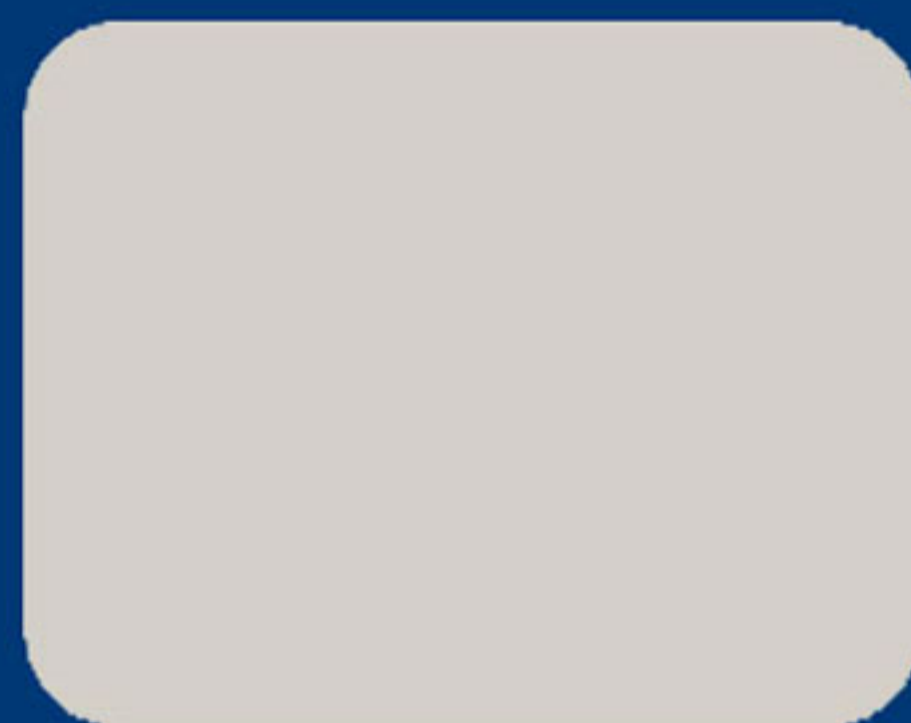
Timeless 1024



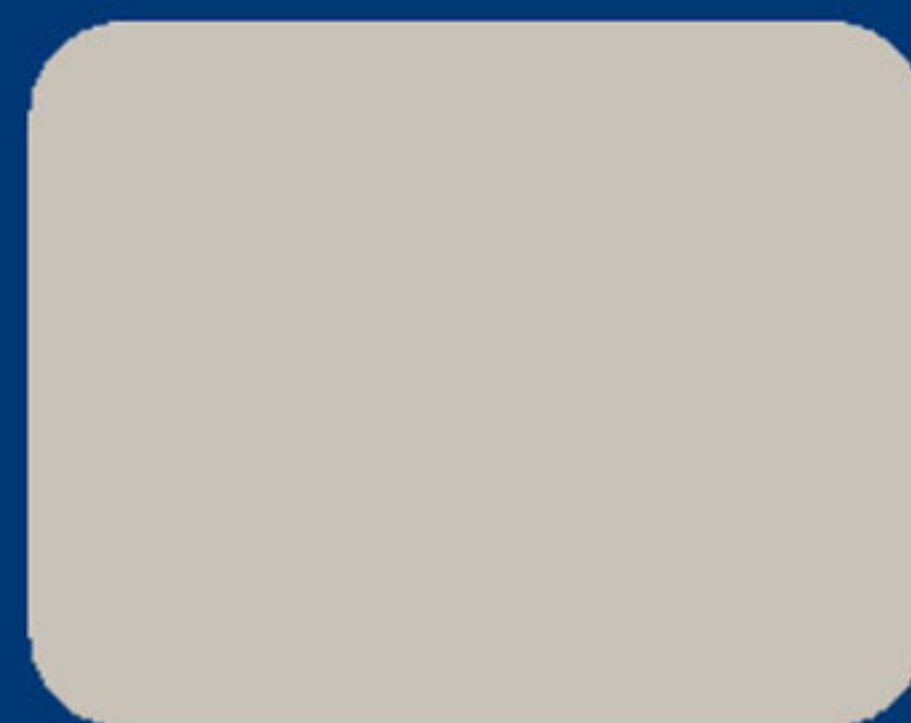
Castor Grey 1069



Iron Grey 1032



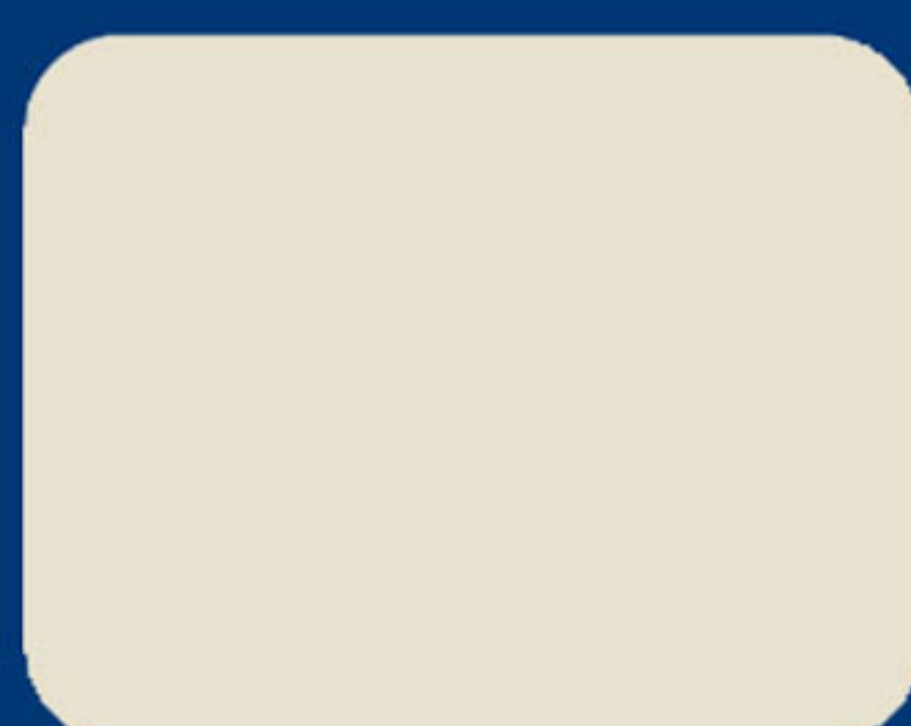
Linen Grey 2105



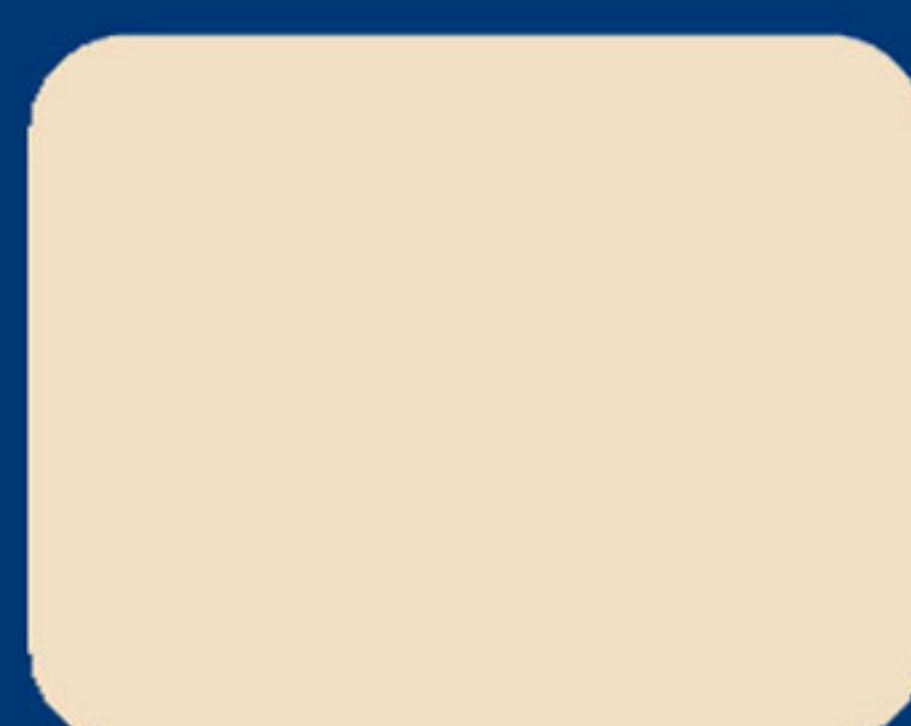
Concrete 1142



Monolith 1144



Loft 1107



Sahara 578

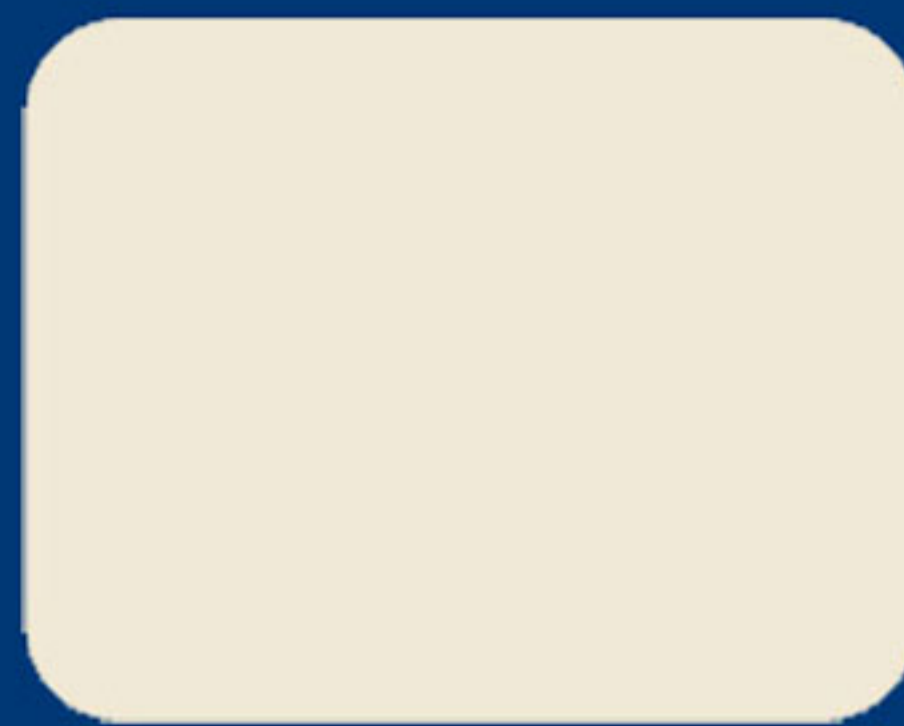


Spring Light 1130



DAWN TO DUSK

Dawn To Dusk brings the best that Middle East has to offer. Its warm reds, rustic browns and lively yellows infuse our lives with the golden hues of the sun.



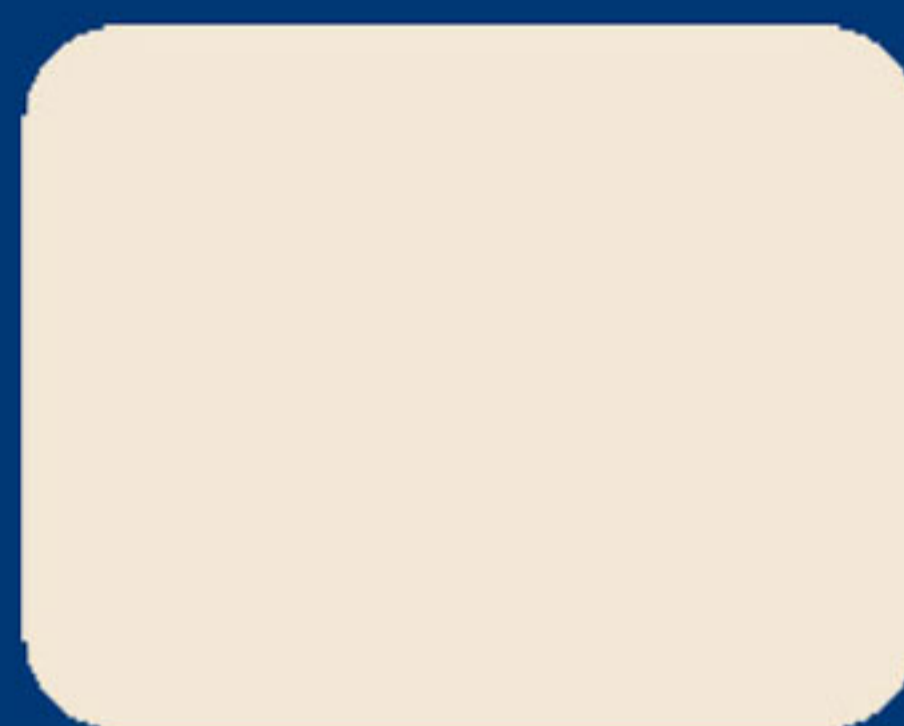
Ivory 567



Peach Sky 1117



Petra Stone 1118



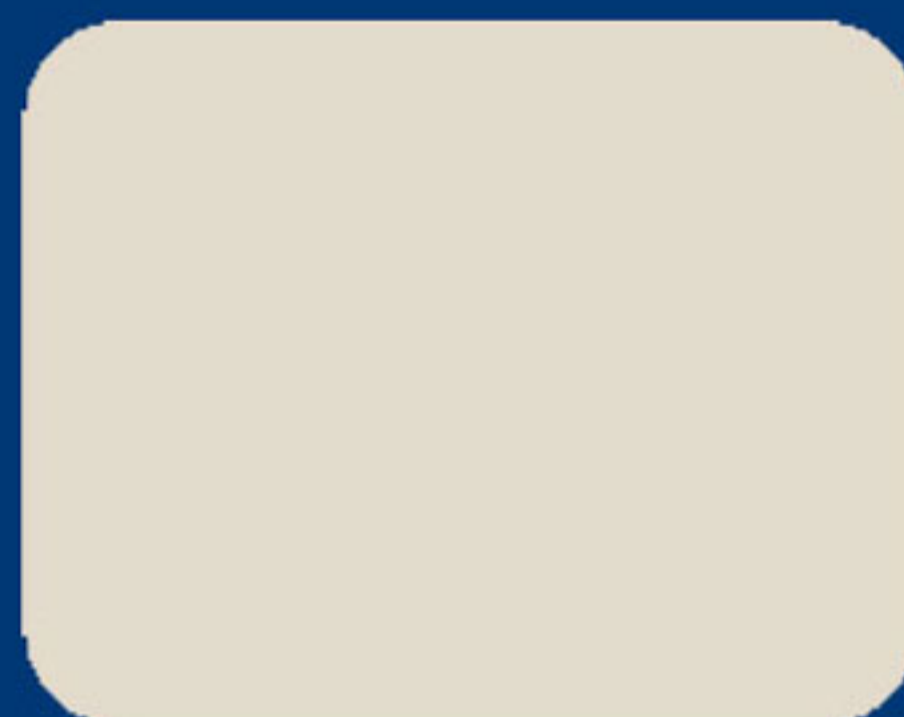
Magnolia 566



Wood Smoke 568



Sahara Sand 1132



Evening Shadow 1134



Damascus Dusk 2086



Sienna Ray 1120



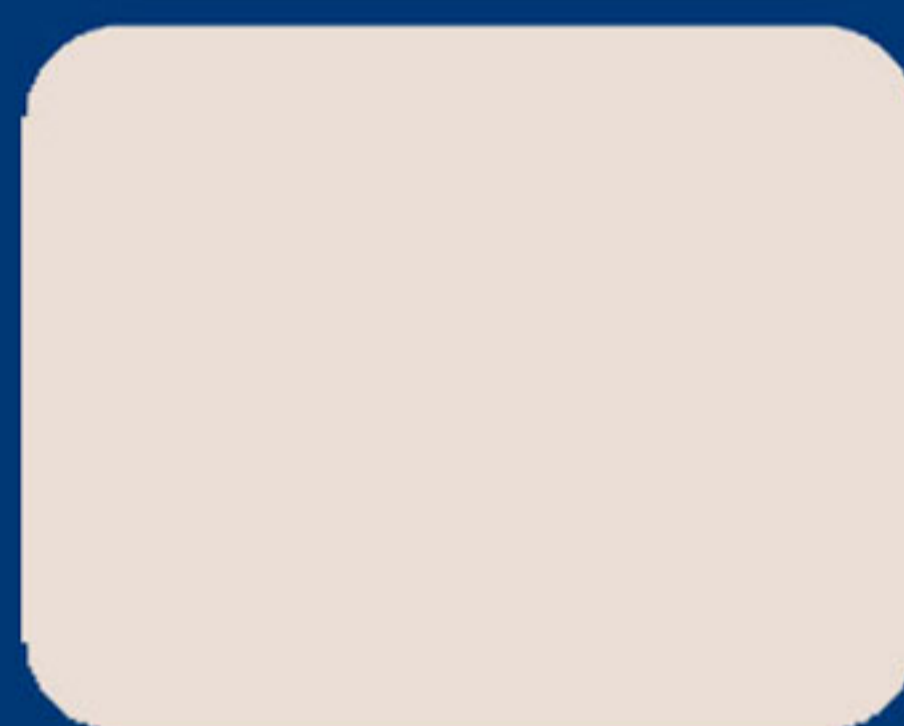
Grey Light 2106



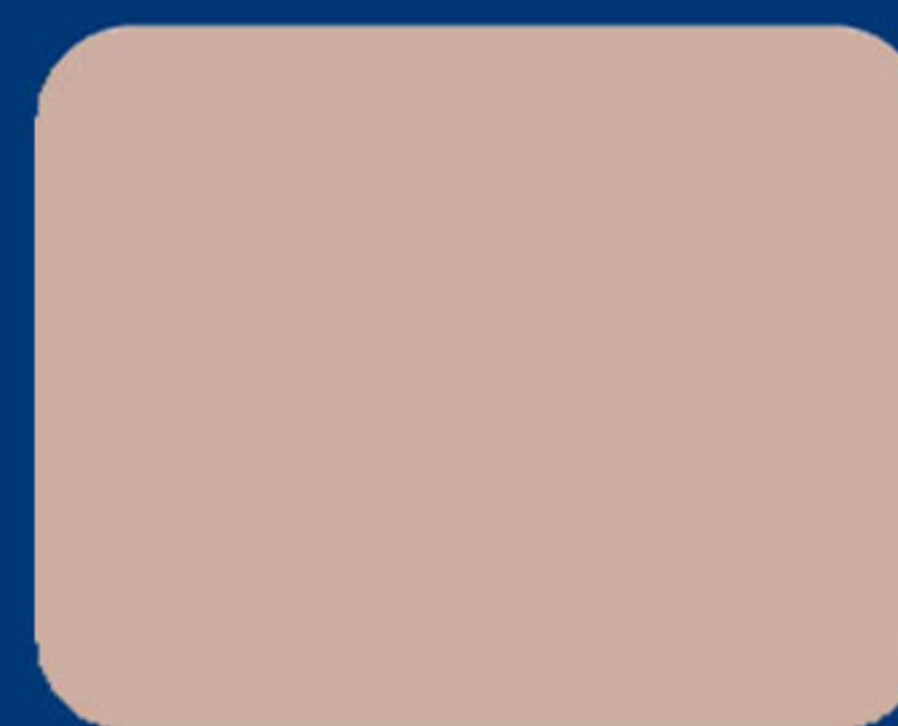
Mahogany Ash 2095



Russet 2096



Sand Dust 2043



Island Tan 2090



Cocoa Seed 2135



JOTASHIELD PAINT SYSTEMS

Surface Preparation

The surface must be clean, dry and fully cured and totally free from dirt, dust, cement and other contamination. Loose paint and particles must be removed. If a detergent is used for cleaning, rinse with fresh water. For porous and chalky surface apply one extra coat of Jotashield Penetrating Primer.

Paint Systems

Jotashield Penetrating or Alkali Resistant Primer	1 coat
Jotashield Extreme	2 coats

If any Block filler is used to rectify imperfections on the substrate, proper sanding followed by a full undiluted coat on Penetrating Sealer must be used before applying any Jotashield Topcoats.

JOTASHIELD EXTREME CAN BE USED AS A TOPCOAT ON ANY OF THE OTHER SYSTEMS.

Other systems may be specified, depending on area of use.

Typical Theoretical Spreading Rate (sq. meter/litre)

12-13 (30 microns dry film thickness).

Drying Time

6 hours

Recoat Time

6 hours

Please contact your local Jotun office for product specifications and availability.

For more information on product used, handling procedures and technical data, kindly refer to our Technical Data Sheets.



ColourAdvisor

Colour your home with a click of a button. To find out more,
log on to www.coloradvisor.com

SRI CERTIFICATE



Building System and Diagnostics Pte Ltd
18 Boon Lay Way TradeHub 21
#07-107 Singapore 609 966
Tel: 6560 0702 Fax: 6795 0020
Business Registration No: 200303877Z

Reference: A051/08/R

20 February 2009
Reissued 11 June 2010

STUDY ON THERMAL PAINT

PREPARED FOR:

Jotun (Singapore) Pte Ltd
N. 11 & 15, Sixth Lok Yang Road
Singapore 628111
Attn: Mr. Winston Lim

Jotun (Malaysia) Sdn Bhd
Lot 7, Persiaran Perusahaan
Sekyen 23, 40300 Shah Alam
Selangor, Malaysia

Jotun U.A.E. Ltd (L.L.C)
P.O. Box 3671, Dubai, U.A.E
Attn: Saji Mathew

PREPARED BY:



Gilbert LAU

- Terms and conditions:
- 1) This report is prepared for the sole use of the client and is prepared under which the Services are performed by BSD.
 - 2) BSD agrees to use reasonable diligence in the performance of the Services and the Report.
 - 3) The Report may not be used in any publicity material without the prior written consent of BSD.
 - 4) The Report may not be reproduced in part or in full unless in writing by BSD.
 - 5) BSD shall under no circumstances be liable to the Client, or any third party, for any direct or indirect loss or damage suffered by the Client, or any third party, connected with the Services provided by BSD herein.

Building System and Diagnostics Pte Ltd

Page 16 of 17

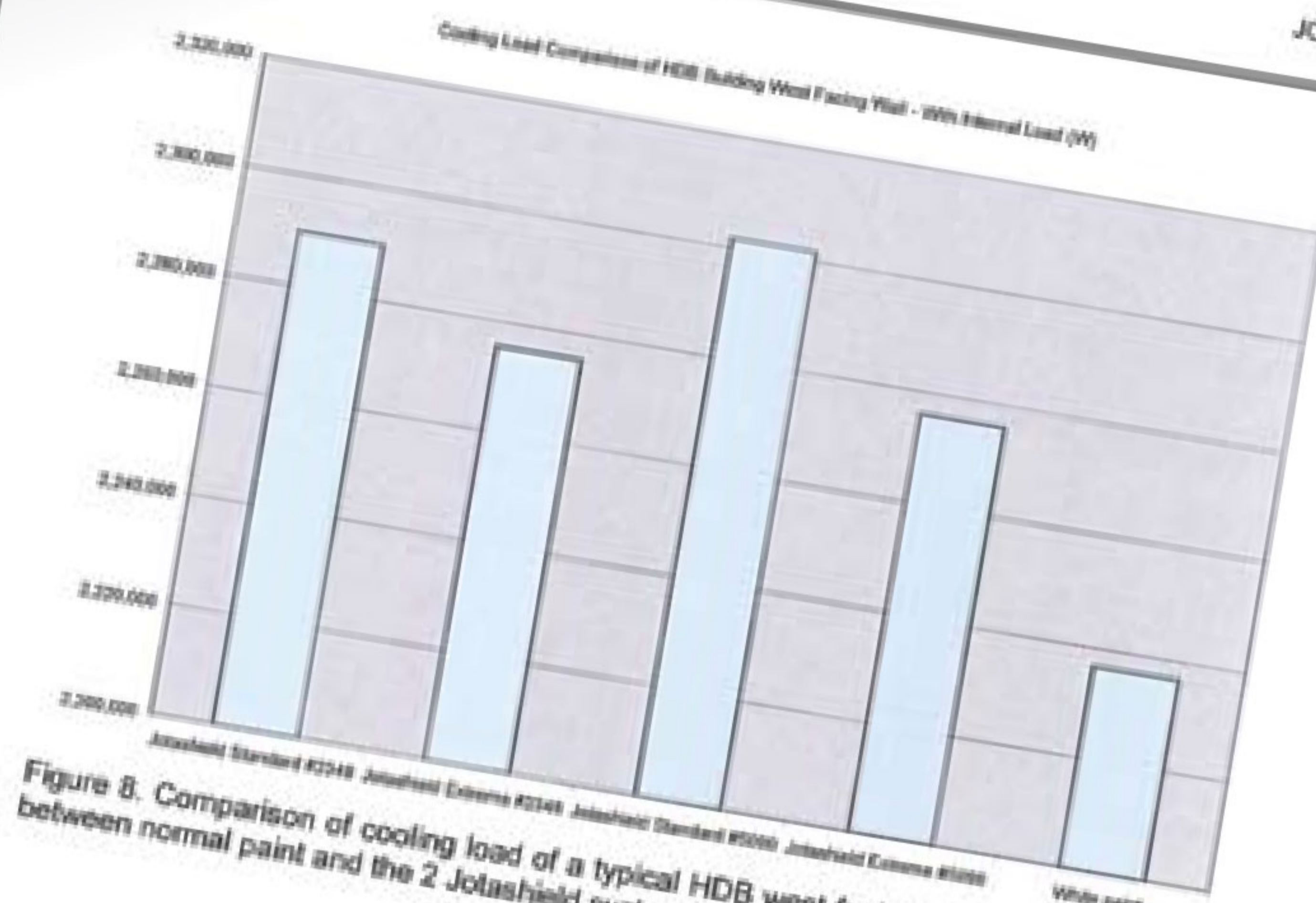


Figure 8. Comparison of cooling load of a typical HDB west facing wall with internal load between normal paint and the 2 Jotunshield systems coatings.

DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice. Jotun is a World Wide company with factories, sales offices and stocks in more than 50 countries. For your nearest local Jotun address please contact the nearest regional office or visit our website at www.jotun.com/me

FOR 100% ACCURATE COLOUR INFORMATION, PLEASE REFER TO THE COLOUR CARD.

QATAR

P.O. BOX 24373
Code-0974, DOHA
QATAR
TEL: +974 4412728
FAX: +974 4415608
Email: jotun@qatar.net.qa

BAHRAIN

P.O. BOX 363
MANAMA
BAHRAIN
TEL: +973 17 729311
FAX: +973 17 825641
Email: csd@jotundxb.ae

KUWAIT

P.O. BOX 75
SAFAT - 13001
KUWAIT
TEL: +965 247 43014
FAX: +965 247 30608
Email: csd@jotundxb.ae

SYRIA

P.O. BOX 9130
DAMASCUS
SYRIA
TEL: +963 11 6731050
FAX: +963 11 6731052

JORDAN

P.O. BOX 850302
AMMAN, 11185
JORDAN
TEL: +962 6 4884454
FAX: +962 6 4884458

IRAN

P.O. BOX 15875-4753
TEHRAN
IRAN
TEL: +9821 88459462 / 88410137
FAX: +9821 88418719
Email: info@konarkish.ir

UAE - ABU DHABI

P.O. BOX 3714
MUSSAFAH, ABU DHABI
UAE
TEL: +971 2 5510300
FAX: +971 2 5510232
Email: csd@jotunadh.ae

UAE - AL AIN

P.O. BOX 23575
AL AIN
UAE
TEL: +971 3 7511696
FAX: +971 3 7511353
Email: jotun@emirates.net.ae

REGIONAL OFFICE:**UAE - DUBAI**

P.O. BOX 3671
AL QUOZ, DUBAI
UAE
TEL: +971 4 3395000
FAX: +971 4 3380666
Email: csd@jotundxb.ae

PAKISTAN

KARACHI
PAKISTAN
TEL: +92 21 5121491/ 5121492
FAX: +92 21 5121493

SAUDIA - JEDDAH

P.O. BOX 34698
JEDDAH-21478, JEDDAH
SAUDI ARABIA
TEL: +966 2 6350535
FAX: +966 2 6362483
Email: saudi-csd@jotun.com

SAUDIA - YANBU AL SINAIYAH

P.O. BOX 30154
YANBU AL SINAIYAH
KSA
TEL: +966 4 3962911
FAX: +966 4 3968483
Email: saudi-csd@jotun.com

SAUDIA - RIYADH

P.O. BOX 91586
RIYADH-11643
RIYADH - SAUDI ARABIA
TEL: +966 1 2703166
FAX: +966 1 2709689
Email: saudi-csd@jotun.com

SAUDIA - DAMMAM

P.O. BOX 4906, -31412
DAMMAM - SAUDI ARABIA
TEL: +966 3 8473090
FAX: +966 3 8474097
Email: saudi-csd@jotun.com

SAUDIA - JUBAIL

P.O. BOX 10593
JUBAIL-31961, JUBAIL
SAUDI ARABIA
TEL: +966 3 3418050
FAX: +966 3 3410247
Email: saudi-csd@jotun.com

SAUDIA - KHAMIS MUSHAYAT AL KHALIDIYA

P.O. BOX 7054
CODE-61961
KHAMIS MUSHAYAT AL
KHALIDIYA AREA
SAUDI ARABIA
TEL: +966 7 2383083
FAX: +966 7 2383053
Email: saudi-csd@jotun.com

OMAN

P.O. BOX 672
Code-111, MUSCAT
OMAN
TEL: +968 24446100
FAX: +968 24446105
Email: jotun@omantel.net.om

OMAN - SOHAR

SOHAR
OMAN
TEL: +968 26847086
FAX: +968 26843675
Email: jotun@omantel.net.om

OMAN - SALALAH

P.O. BOX 528
P.C.211, SALALAH
OMAN
TEL: +968 23291377
FAX: +968 23291377
Email: jotun@omantel.net.om

YEMEN- ADEN

P.O. BOX 70183
ADEN
YEMEN
TEL: +967 2 820546 / 7 / 8 / 9
FAX: +967 2 249362
Email: jotunyemen@y.net.ye

YEMEN - SANA'A

P.O. BOX 37109
BEER OBEID-SHUMEILA
SANA'A
YEMEN
TEL: +967 1 635081 / 635283
FAX: +967 1 635082
Email: jotunyemen@y.net.ye

EGYPT - CAIRO

EL SHEIKH ALI GAD ELHAQ ST.
FLORIDA TOWER, SHERATON
HELIOPOLIS, CAIRO
EGYPT
TEL: +20 2 22651800
FAX: +20 2 22651801
Email: jotun@jotun.com.eg

EGYPT - ALEXANDRIA

EL MOHANDES JOTUN S.A.E.
18 YEHIA EL MASHAD ST.
SMOuha, ALEXANDRIA
EGYPT
TEL: +20 3 4277780/+20 3
4274441/2/8
FAX: +20 3 4271118
Email: jotun@jotun.com.eg

EGYPT - ISMAILIA

P.O. BOX 203
ISMAILIA
EGYPT
TEL: +206 4 3481031/2/3/4/5
FAX: +206 4 3481030
Email: jotun@jotun.com.eg

LIBYA

HAY EL-ANDALUS-TRIPOLI
P.O. BOX 6850
TRIPOLI
LIBYA
TEL: +218 21 4777811
FAX: +218 21 4780718
Email: jotun@jotunlibya.com

TURKEY

YENI CAMLIK CAD. AYAZ SOK.
NO2 KAT:4
4 LEVENT ISTANBUL
TURKEY
TEL: +212 279 7878
FAX: +212 279 2549

SUDAN

KHARTOUM
SUDAN
TEL: +249 183478530
TEL: +249 912300592
FAX: +249183468688
Email: jotun_sudan@yahoo.com

KENYA

TURKANA ST.
P.O. BOX 82091
MOMBASA 80100
TEL: +254 41 2220852/3
FAX: +254 41 2313814
Email: jotunkenya@wananchi.com

TANZANIA

P.O. BOX 361
DAR-ES-SALAAM
TANZANIA
TEL: + 255 22 2121074/2121325
FAX: + 255 22 2125986

INDIA

ASCOT CENTER
NEXT TO HOTEL LE-MERIDIEN
SAHAR ROAD, ANDHERI EST
MUMBAI-400099
TEL: +9122 2 8224600
FAX: +9122 2 8205900
Email: jotun.mumbai@jotun.com



www.jotun.com/me